

VOLTA

SHAW'S 65 MAIN STREET PHASE 1

65 MAIN ST
MEDWAY, MA 02053
NORFOLK COUNTY

BOSTON MARKET

VOLTA

155 DE HARO STREET
SAN FRANCISCO, CA 94103

Kimley»Horn

404 WYMAN STREET, SUITE 385
WALTHAM, MA 02451
Main: 781.328.0676 | www.kimley-horn.com
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ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING/DWELLING CODE MASSACHUSETTS BUILDING CODE 2017
STRUCTURAL CODE MASSACHUSETTS BUILDING CODE 2017
PLUMBING CODE MASSACHUSETTS PLUMBING CODE 2017
MECHANICAL CODE MASSACHUSETTS BUILDING CODE 2017
ELECTRICAL CODE MASSACHUSETTS ELECTRICAL CODE 2017
FIRE/LIFE SAFETY CODE MASSACHUSETTS FIRE CODE 2017

VOLTA PROPOSES TO INSTALL:

- (2) ELECTRIC VEHICLE CHARGING STATIONS AND ALL RELATED ELECTRICAL AND CIVIL ACTIVITIES. PAINTING AND MARKING OF EV CHARGING PARKING SPACES AND INSTALLATION OF NECESSARY PARKING SIGNS.

APPLICANT:

VOLTA
155 DE HARO STREET
SAN FRANCISCO, CA 94103
CONTACT: MAC TAYLOR
PHONE #: 510-292-8964
EMAIL: MAC.TAYLOR@VOLTACHARGING.COM

CIVIL ENGINEER:

KIMLEY-HORN & ASSOCIATES
1700 WILLOW LAWN DRIVE SUITE 200
RICHMOND, VA 23230
CONTACT: BRIAN BREWER
PHONE #: (804)-672-4709
EMAIL: BRIAN.BREWER@KIMLEY-HORN.COM

PROPERTY INFORMATION:

ALBERTSONS COMPANIES
250 E PARKCENTER BLVD
BOISE, ID 83706
CONTACT: CATHY IKEUCHI
PHONE: (925)-226-5860
EMAIL: CATHY.IKEUCHI@ALBERTSONS.COM

ELECTRICAL ENGINEER:

KIMLEY-HORN & ASSOCIATES
4525 MAIN STREET SUITE 1000
VIRGINIA BEACH, VA 23462
CONTACT: JON CHAMBERS
PHONE #: (757)-213-8620
EMAIL: JON.CHAMBERS@KIMLEY-HORN.COM

PROJECT MANAGER:

VOLTA
155 DE HARO STREET
SAN FRANCISCO CA 94103
CONTACT: MAC TAYLOR
PHONE #: 510-292-8964
EMAIL: MAC.TAYLOR@VOLTACHARGING.COM

CODE BLOCK

PROJECT DESCRIPTION

PROJECT TEAM

Sheet Number	Sheet Title
C0-00	Title Sheet
C0-01	General Notes
C0-02	Volta Station Overview
C1-00	Overall Site Plan
C2-00	Enlarged Site Plan
C3-00	Site Details
C3-01	Site Details
C3-02	Site Details
C3-03	Site Details
E1-00	Electrical One Line Diagram
E3-00	Electrical Notes & Details

SHEET INDEX



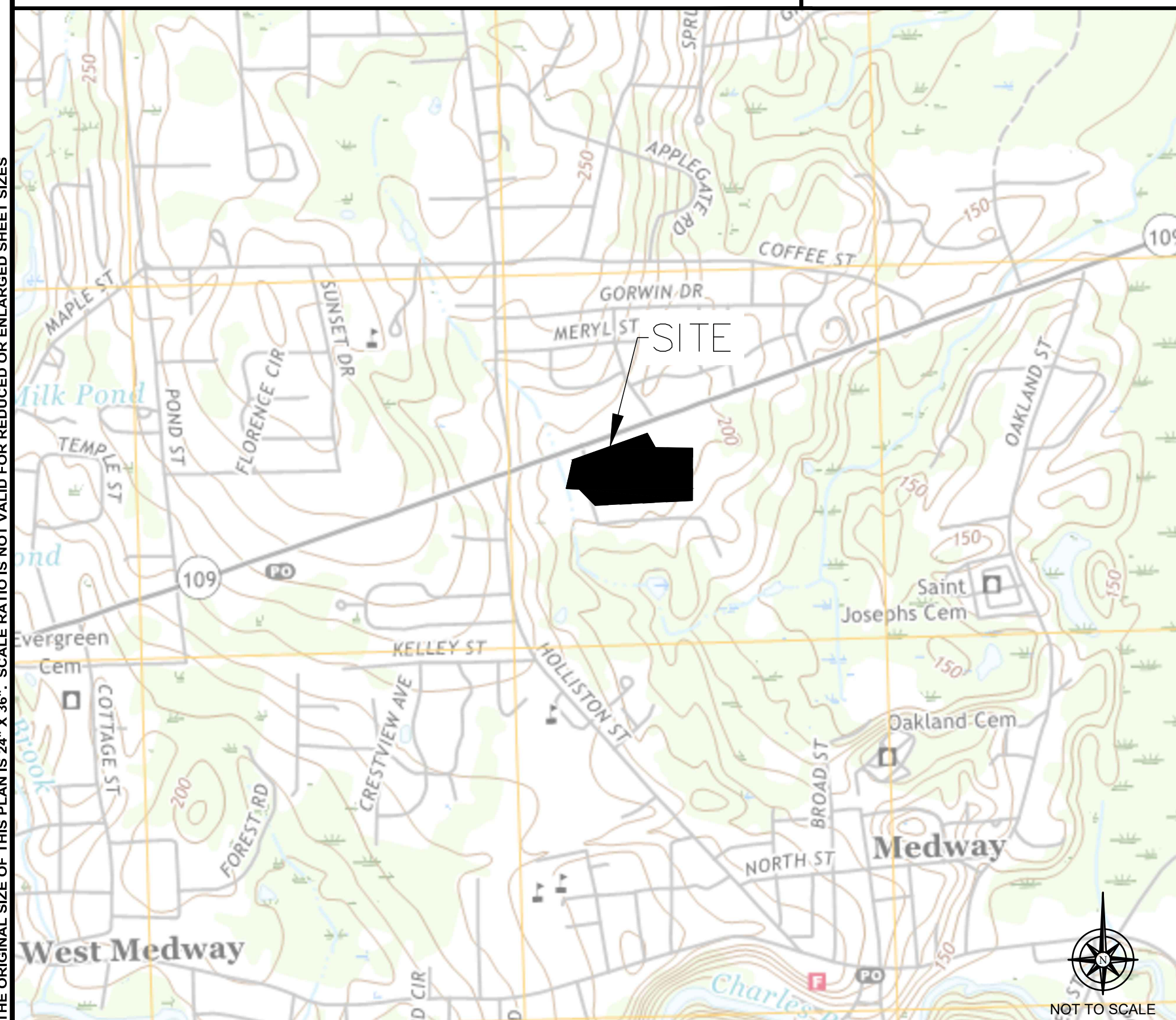
DIG ALERT

Know what's BELOW.
CALL before you dig.

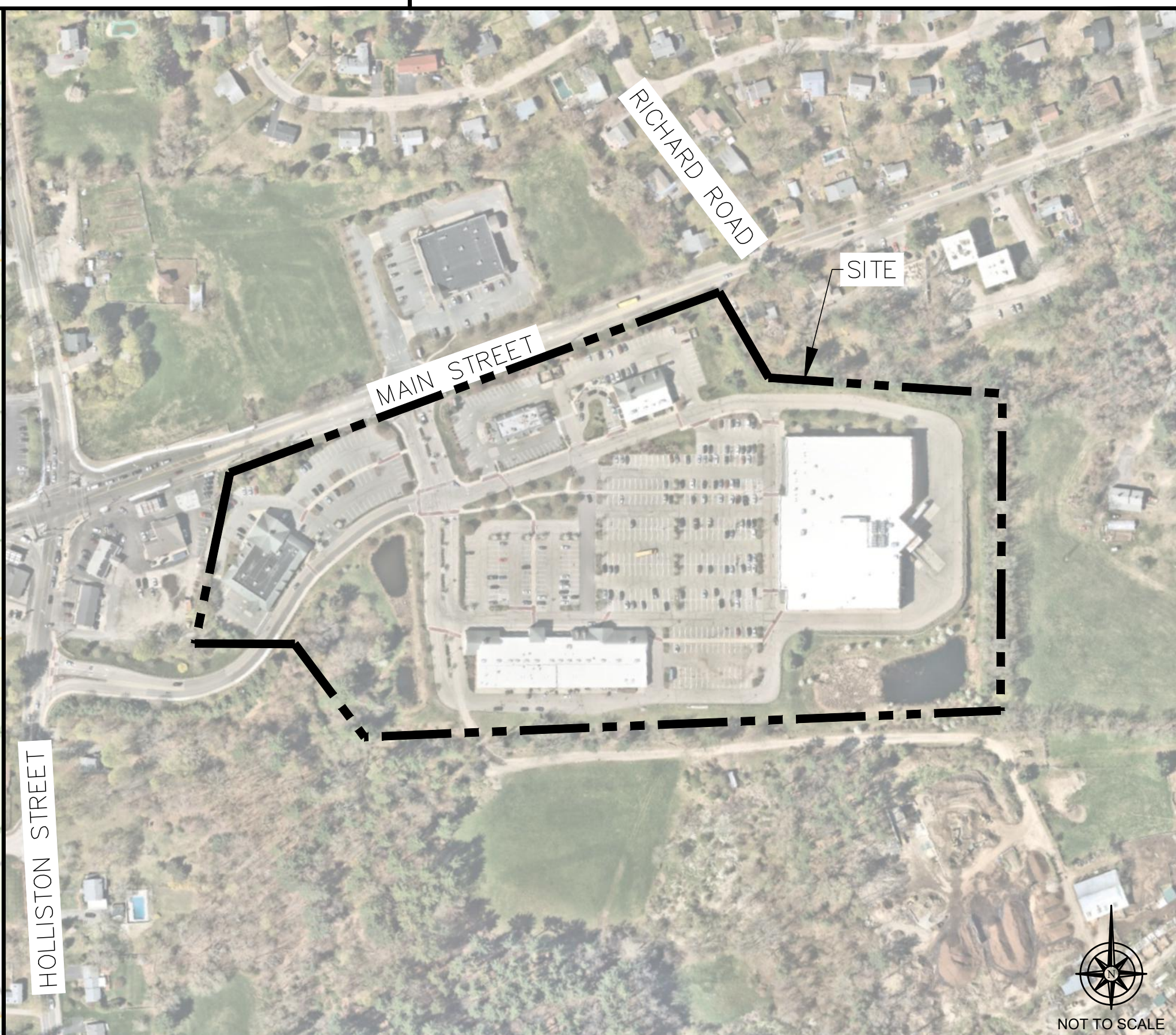
CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

DO NOT SCALE DRAWINGS



VICINITY MAP



LOCAL MAP



07-13-2022

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STREET PHASE 1

65 MAIN ST
MEDWAY, MA 02053

SHEET TITLE

TITLE SHEET

SHEET NUMBER

C0-00

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES:

1. THIS DOCUMENT DOES NOT CONTAIN ALL SPECIFICATIONS AND DETAILS FOR NECESSARY FOR CONSTRUCTION. REFER TO INSTALLATION GUIDE AND OTHER DOCUMENTS PROVIDED BY VOLTA FOR ADDITIONAL INFORMATION.
2. ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE. EXISTING UTILITY LOCATIONS AND CROSSINGS ARE TO BE LOCATED IN THE FIELD. CONTRACTOR IS TO CONTACT 811 UTILITY PRIOR TO BEGINNING ANY EXCAVATION WORK.
3. ALL PAVEMENT, LANDSCAPING, UTILITIES, AND OWNER PROPERTY THAT IS DAMAGED OR AFFECTED BY CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
4. PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH EXISTING STRIPING WHEREVER POSSIBLE, ADDITIONAL PAVEMENT STRIPE IS NOT NECESSARY PARALLEL TO THE CONSTRUCTED CHARGING ISLAND.
5. CONTRACTOR IS TO SUBMIT SKETCH OF ESTIMATED EXTENTS OF PROPOSED PAVEMENT WORK TO VOLTA AND KIMLEY-HORN PRIOR TO BEGINNING PAVEMENT WORK.
6. PROPOSED TRANSFORMER AND SWITCHGEAR CABINET LOCATIONS ARE APPROXIMATE. CONTRACTOR CAN FIELD LOCATE WITHIN LANDSCAPE ISLAND AS NECESSARY WITH APPROVAL FROM VOLTA.
7. THIS ACCESSIBILITY REVIEW WAS UNDERTAKEN TO IDENTIFY DESIGN FEATURES OF THE PROJECT THAT MAY BE CONSIDERED BY GOVERNMENTAL AGENCIES OR DEPARTMENTS, OR NON-GOVERNMENTAL GROUPS TO BE NON-COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT OF 1990, REVISED 2010 ADA REGULATIONS AND STANDARDS. THE AMERICANS WITH DISABILITIES ACT OF 1990 IS A FEDERAL CIVIL RIGHTS LAW, THERE IS NO FEDERAL REVIEW PROCESS TO ENSURE FULL COMPLIANCE WITH THE GUIDELINES, EXCEPT THROUGH THE FEDERAL COURT SYSTEM. THE DEPICTIONS, NOTES, AND RECOMMENDATIONS, EXPRESSED ON THIS PLAN ARE BASED ON PROFESSIONAL JUDGEMENT GAINED FROM PAST EXPERIENCE WITH ACCESSIBILITY LAWS, CODES, AND STANDARDS AND THE WORKING INVOLVEMENT TO DEVELOP ACCESSIBILITY STANDARDS THAT WILL MEET OR EXCEED THE APPLICABLE FEDERAL GUIDELINES. ACCORDINGLY, NO CLAIMS OR WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE THAT IN PREPARING THIS PLAN AND PROPOSING RECOMMENDATIONS, THAT ALL POSSIBLE BARRIERS TO ALL PEOPLE HAVE BEEN IDENTIFIED.
8. CONTRACTOR SHALL ACHIEVE A MINIMUM OF 1% BUT NO MORE THAN A 2% SLOPE IN ANY DIRECTION WITHIN ADJACENT ACCESSIBLE SPACE AND BLEND ASPHALT OVERLAY TO EXISTING GRADES AS REQUIRED. CONTRACTOR SHALL PROVIDE A SKETCH TO VOLTA OF PROPOSED LIMITS OF ASPHALT OVERLAY TO ACHIEVE THIS REQUIREMENT PRIOR TO BEGINNING PAVEMENT WORK.
9. ACCESSIBLE EV STALLS WERE DESIGNED BASED ON EXISTING CONDITIONS AND WITHOUT THE BENEFIT OF SURVEY DATA. ALL ADA AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO SLOPE AND SPACING SHALL BE CONFIRMED BY THE CONTRACTOR AND MET AT THE TIME OF CONSTRUCTION.
10. CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ACCESSIBILITY PRIOR TO CONSTRUCTION.

ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS

GRADING NOTES:

1. ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
2. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
3. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER (DOES NOT APPLY TO RETAINING WALLS), AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT.
7. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL 811 ONE CALL.
8. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN. THE CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

EROSION CONTROL NOTES:

1. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS. STOCK PILE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO GRADING ACTIVITIES. EROSION & SEDIMENT CONTROL PRACTICE SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
2. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
3. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED (WITHIN 15 DAYS OF ACHIEVED FINAL GRADES) UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
4. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
5. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.

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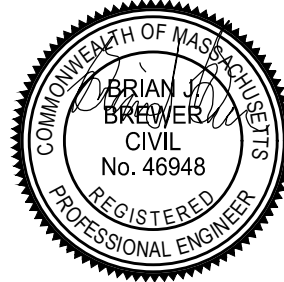
4	07/13/2022	CD100s - ZONING PERMIT	TAS
3	06/21/2021	CD100 REVISION PER VOLTA COMMENTS	TAS
2	07/01/2019	CD100s	CMN
1	06/13/2019	CD90s	CMN
REV	DATE	DESCRIPTION	BY

ISSUE DATE

07/13/2022

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STREET PHASE 1

65 MAIN ST
MEDWAY,MA 02053

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C0-01

VOLTA - STATION OVERVIEW

Volta provides free, turnkey electric vehicle charging services. This modern amenity attracts the community as Volta's charging network draws 3x the number of visits to the property as compared to other charging networks.* Our stations have been installed in over 120 different municipalities across the U.S.

**Finn Research*

VOLTA STATION BENEFITS

- Installation, equipment and maintenance is paid by Volta
- Charges all electric vehicles
- Electricity to charge community members' electric vehicle is free
- Free electricity supported through third party content on displays
- Charges up to 2 hours free with software that discourages abuse
- Volta stations are occupied 80% of the retail day
- Volta has provided over 60 million miles of free charging, replaced approximately 2.3 million gallons of gasoline and eliminated over 45 million pounds of CO2

Charging Unit Information

Single charging units
Size: H 86.25" x W 32.5" x D 12.75"
Display Size: H 48" x W 27"
Cord length: 20'
Power Type: 208/240VAC, 40A, 10 kW max
Plug: SAE J1772 compliant connector
Listings: UL® E354307

POWER REQUIREMENTS

Charging Unit: 50A/2P 208/240V breaker
Charging Aux Power: 20A/IP 120V breaker
Cell signal or LAN access required

INSTALLATION REQUIREMENTS

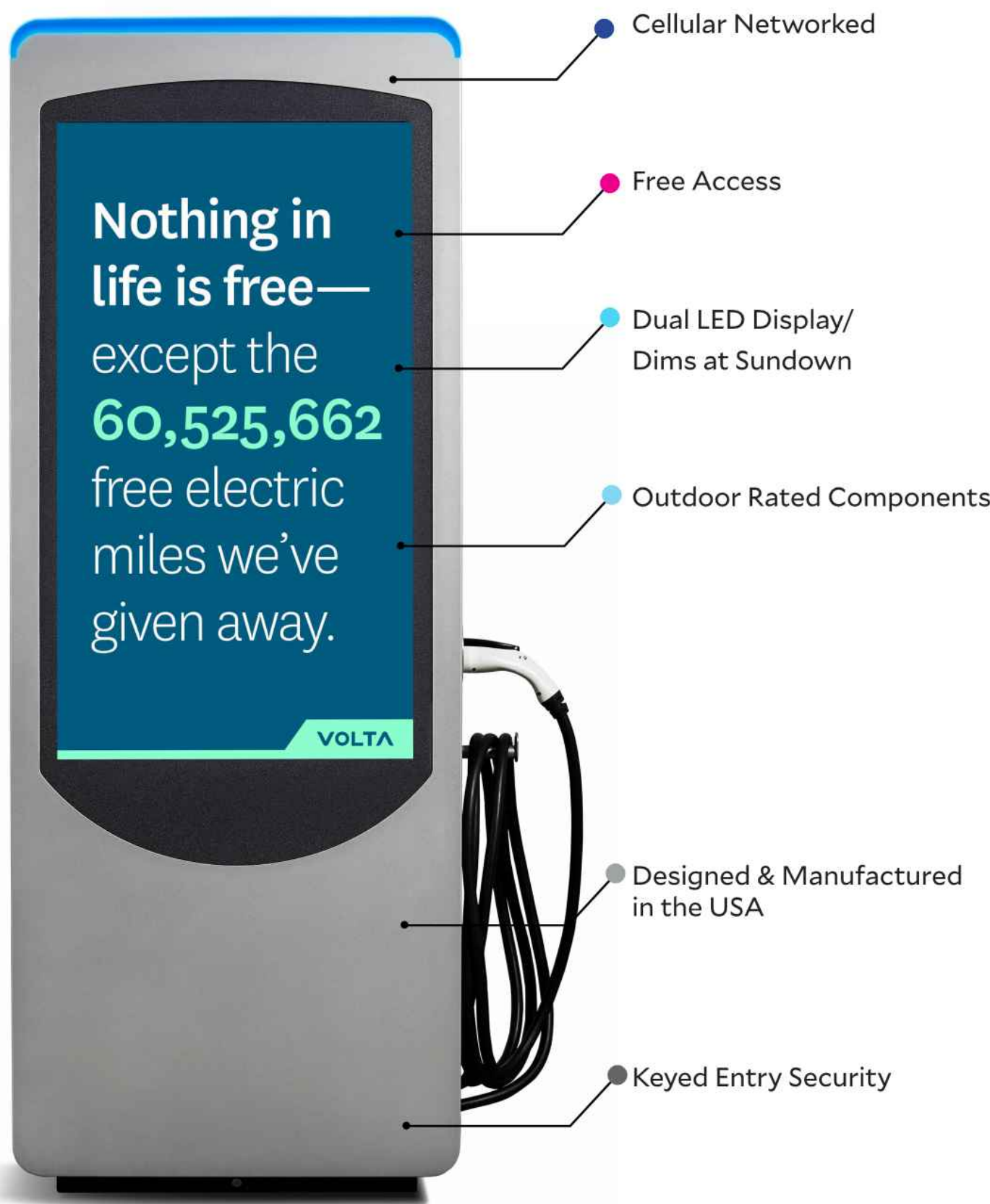
Wire Diameter: #6 AWG"
Larger for longer conduit runs

Conduit Diameter: 2"
Two Volta stations can share one 2" conduit

Volta's mission is simple: Accelerate electric vehicle adoption by building cutting-edge, free and inspiring vehicle charging networks.



Above is a typical Volta installation showing one of our charging stations in a parking area.



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FOR
INFORMATIONAL
PURPOSES
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SHAW'S 65 MAIN
STREET PHASE 1

65 MAIN ST
MEDWAY,MA 02053

SHEET TITLE
VOLTA STATION
OVERVIEW

SHEET NUMBER
C0-02

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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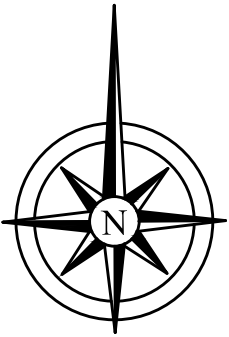
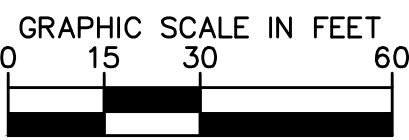
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CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND IS TO ALERT THE ENGINEER AND VOLTA OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH VOLTA PM FOR ALL FINAL PLACEMENTS OF INFRASTRUCTURE.

- CONSTRUCTION NOTES:
- CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, CONDUIT INSTALLATION, AND WIRING.
 - CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
 - CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY CONSTRUCTION ACTIVITY. SEE SHEET C3-01 FOR DETAILS.
 - EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS
 - CONTRACTOR TO FIELD VERIFY ALL STALL DIMENSIONS AND ALL EQUIPMENT LOCATIONS TO ENSURE SUFFICIENT SPACE IS AVAILABLE.
 - CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN DRILLING INTO EXISTING CIP SLAB AND CIP DROP PANELS TO AVOID DAMAGE TO ANY REINFORCING AND EXISTING STRUCTURAL COMPONENTS.
 - USE APPROVED ASTM METHOD (X-RAY, PACOMETER, GRP, ETC.) TO LOCATE MILD STEEL AND PRE-STRESSING TENDONS PRIOR TO DRILLING. DO NOT CUT OR DRILL THROUGH ANY EXISTING REINFORCING. ADJUST LOCATION AS NECESSARY TO AVOID EXISTING REINFORCING.ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
 - VOLTA WILL MAKE EVERY EFFORT TO FOLLOW, WITH THEIR PROPOSED CONDUIT, AN EXISTING CONDUIT ROUTE FROM ELECTRICAL ROOM TO PROPOSED STATION PLACEMENTS. WHEN AN EXISTING ROUTE IS NOT AVAILABLE, VOLTA WILL MAKE EVERY EFFORT TO CONCEAL/HIDE, PAINT AND MINIMIZE VISUAL IMPACT OF CONDUITS ANYWHERE THEY MAY BE VISIBLE TO THE PUBLIC.

- ADA COMPLIANCE:
- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
 - PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
 - ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
 - BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
 - CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

- PARKING NOTE:
- FOR THE PURPOSE OF THIS PLAN IT IS ASSUMED THERE IS ADEQUATE PARKING IN EXISTING CONDITIONS TO CONVERT 2 PARKING SPACES TO 2 EV PARKING SPACES.



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3	06/21/2021	CD100 REVISION PER VOLTA COMMENTS	TAS
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1	06/13/2019	CD90s	CMN

ISSUE DATE
07/18/2019

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SHAW'S 65 MAIN
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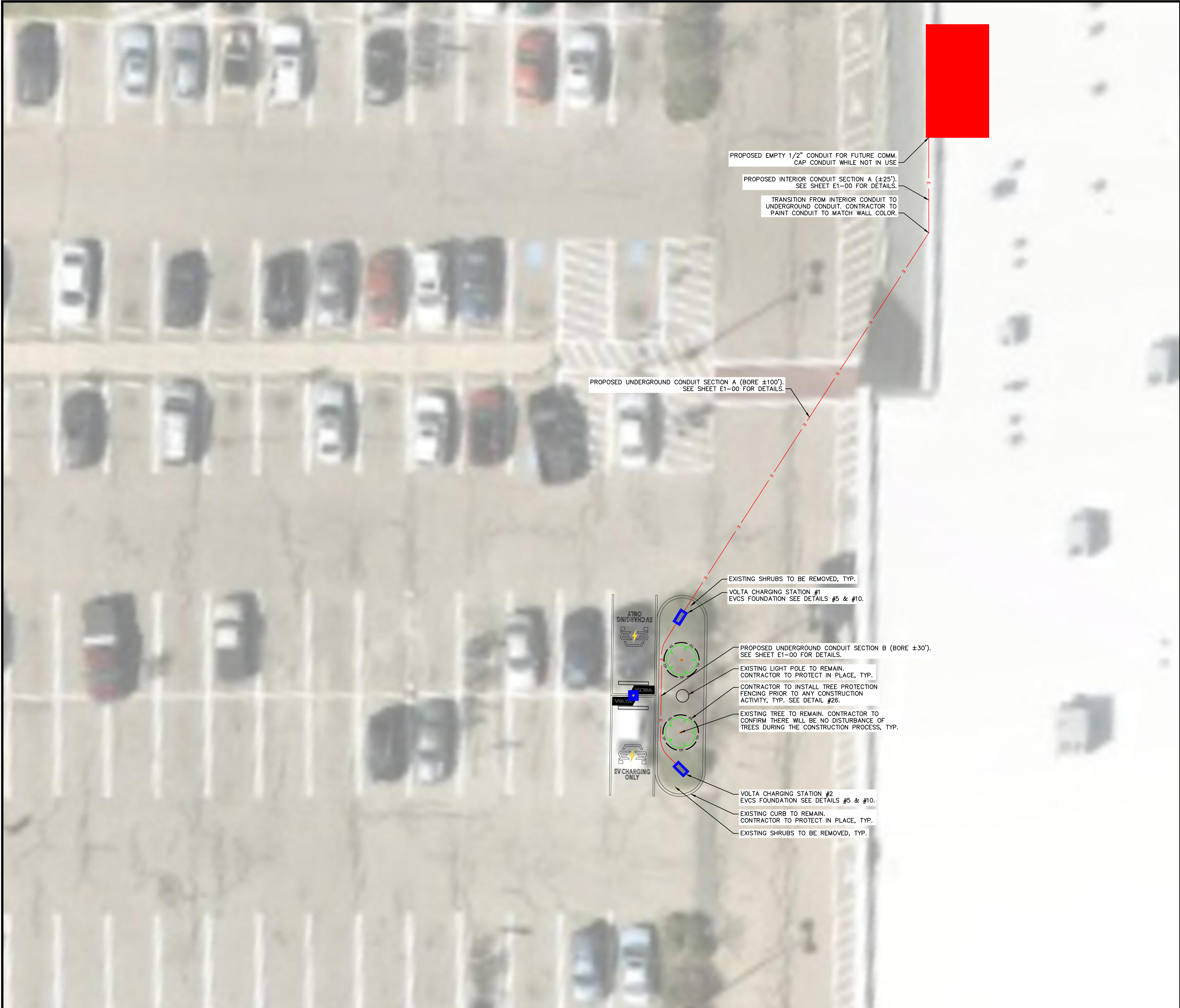
65 MAIN ST
MEDWAY,MA 02053

SHEET TITLE
**OVERALL
SITE PLAN**

SHEET NUMBER
C1-00

OVERALL SITE PLAN

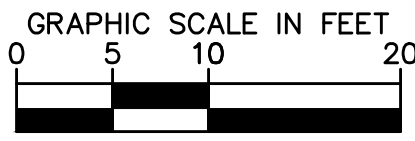
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**SHAW'S 65 MAIN
STREET PHASE 1**

65 MAIN ST
MEDWAY, MA 02053

SHEET TITLE
**ENLARGED
SITE PLAN**

SHEET NUMBER
C2-00

ENLARGED SITE PLAN

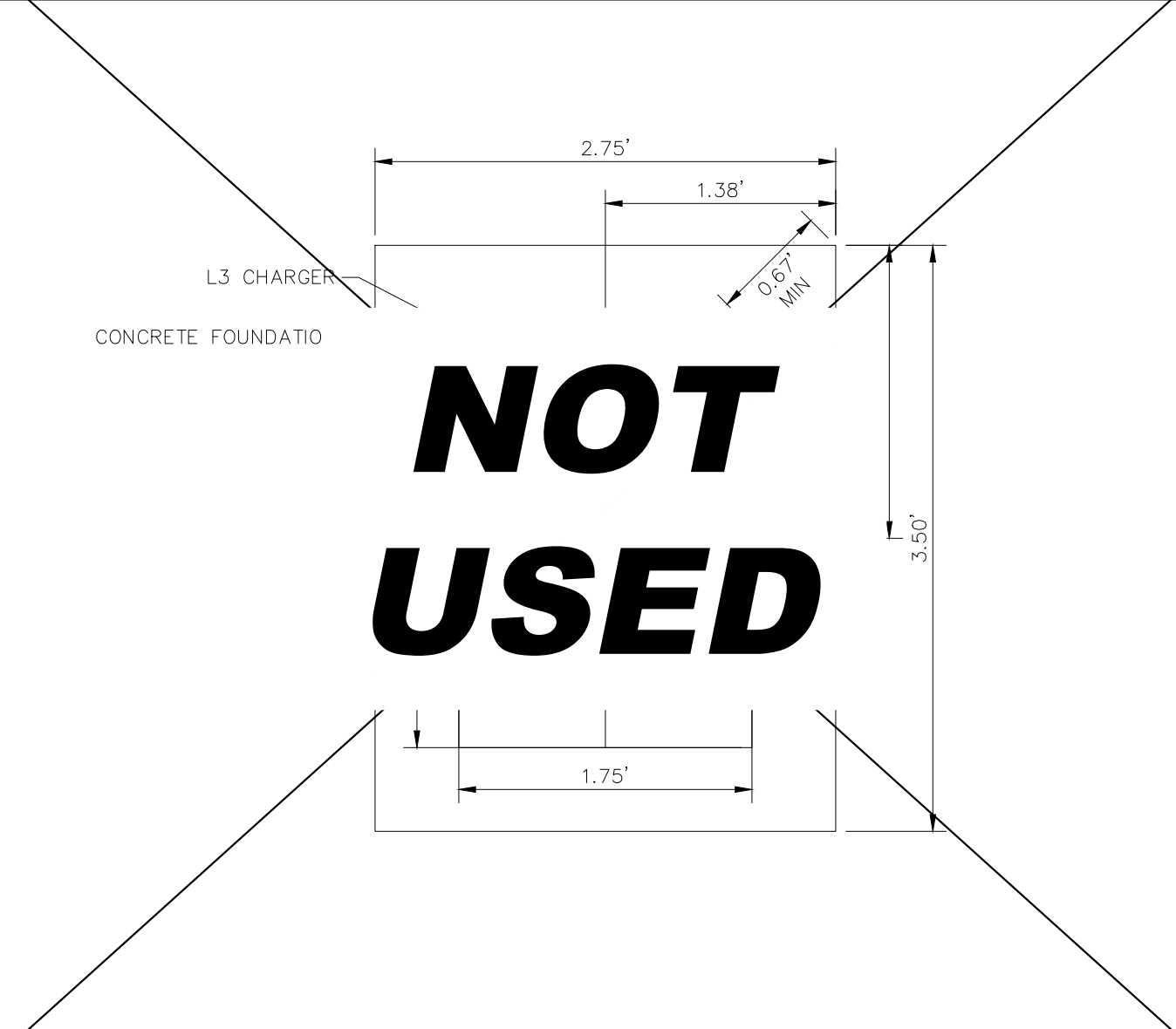
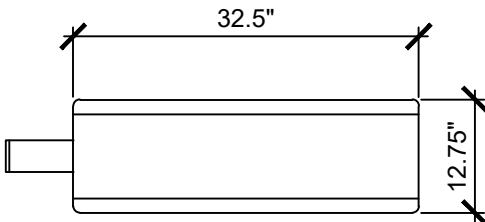
-
- FRONT**
- 86.25"
- 32.5"
- VOLTA**
- SIDE**
- 38"
- 12.75"
- VOLTA**
- FREE**
EV CHARGING
- BACK**
- 32"
- VOLTA**
- PLAN**
- 32.5"
- 12.75"
- CHARGER SPECIFICATIONS**
- SIZE: H 86.5" x W 32.5" x D 12.75"
 CORD LENGTH: 20'
 POWER TYPE: 208/240VAC, 40A, 10KW MAX
 PLUG: SAE J1772 COMPLIANT CONNECTOR
 LISTINGS: ETL LISTED TO UL E472596
- POWER REQUIREMENTS**
- CHARGING UNIT: 50A/2P 208/240V BREAKER
 STATION AUX POWER* 20A/1P 120V BREAKER
- NOTES:**
1. THE GRIP RANGE FOR THE CHARGE CABLE BEGINS AT 32" ABOVE PARKING SURFACE.

SIZE: H 86.5" x W 32.5" x D 12.75"
CORD LENGTH: 20'
POWER TYPE: 208/240VAC, 40A, 10KW MAX
PLUG: SAE J1772 COMPLIANT CONNECTOR
LISTINGS: ETL LISTED TO UL E472596

CHARGING UNIT: 50A/2P 208/240V BREAKER
STATION AUX POWER™ 20A/1P 120V BREAKER

NOTES:

1. THE GRIP RANGE FOR THE CHARGE CABLE BEGINS AT 32" ABOVE PARKING SURFACE.



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SCALE	3
N.T.S.	

1. CONTRACTOR TO VERIFY POST INSTALLATION OR CAST IN PLACE ANCHOR AS LISTED BELOW BASED ON FIELD MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.
2. CONTRACTOR TO VERIFY EXISTING CONCRETE SLAB THICKNESS AND MAINTAIN 3" MINIMUM COVER OF CONCRETE BELOW EMBEDDED ANCHORS.

MINIMUM EFFECTIVE EMBEDMENT OF 3" OR ENGINEER APPROVED EQUAL

(6) 1/2" DIAMETER HILTI KWIK BOLT TZ-SS304 ANCHOR ROD WITH MINIMUM EFFECTIVE EMBEDMENT OF 3 1/4" OR ENGINEERING APPROVED EQUAL.

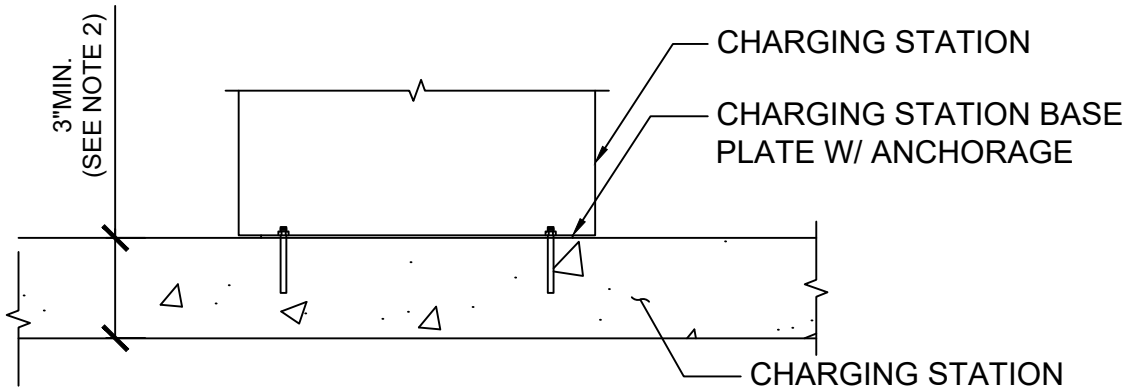
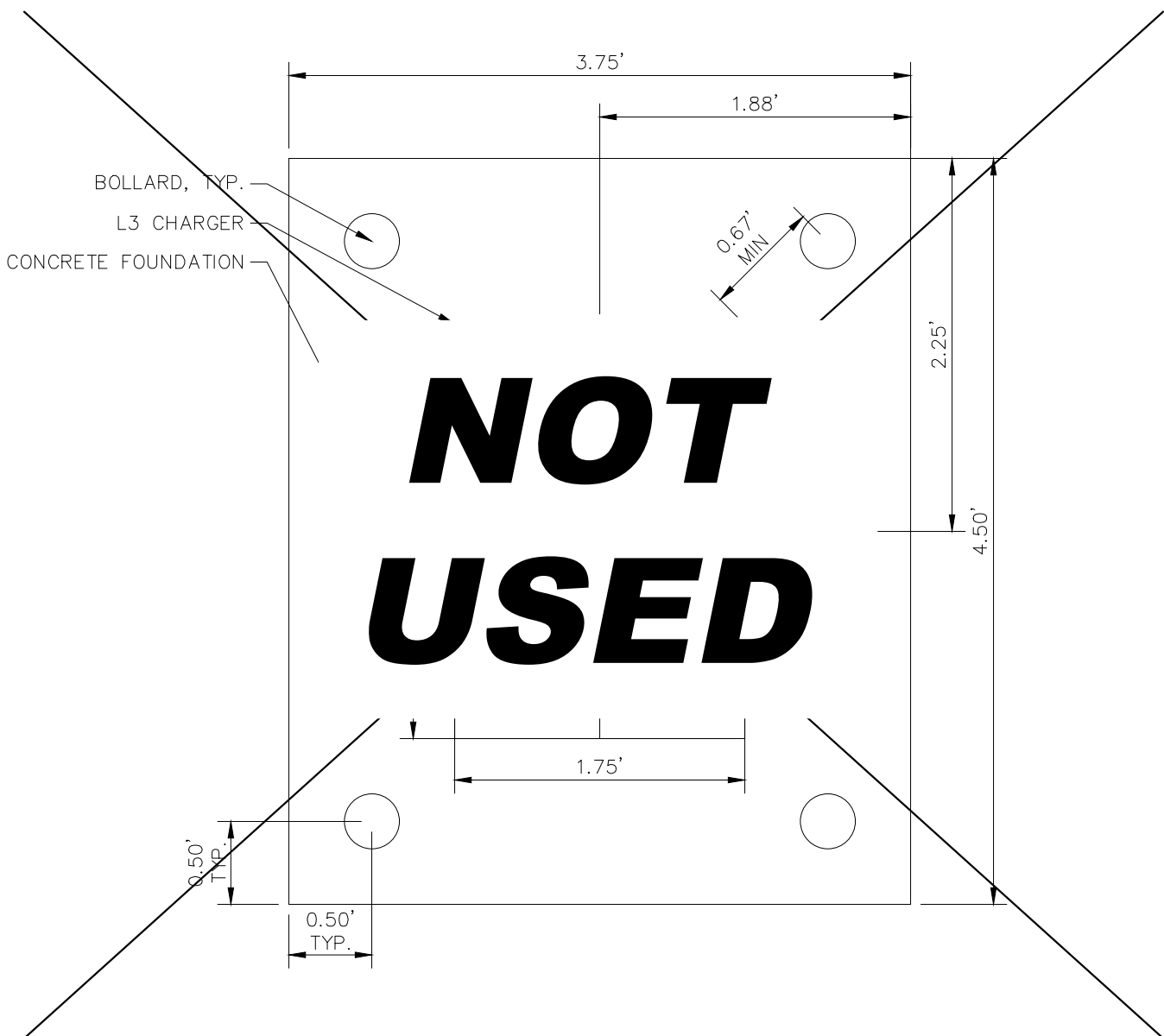
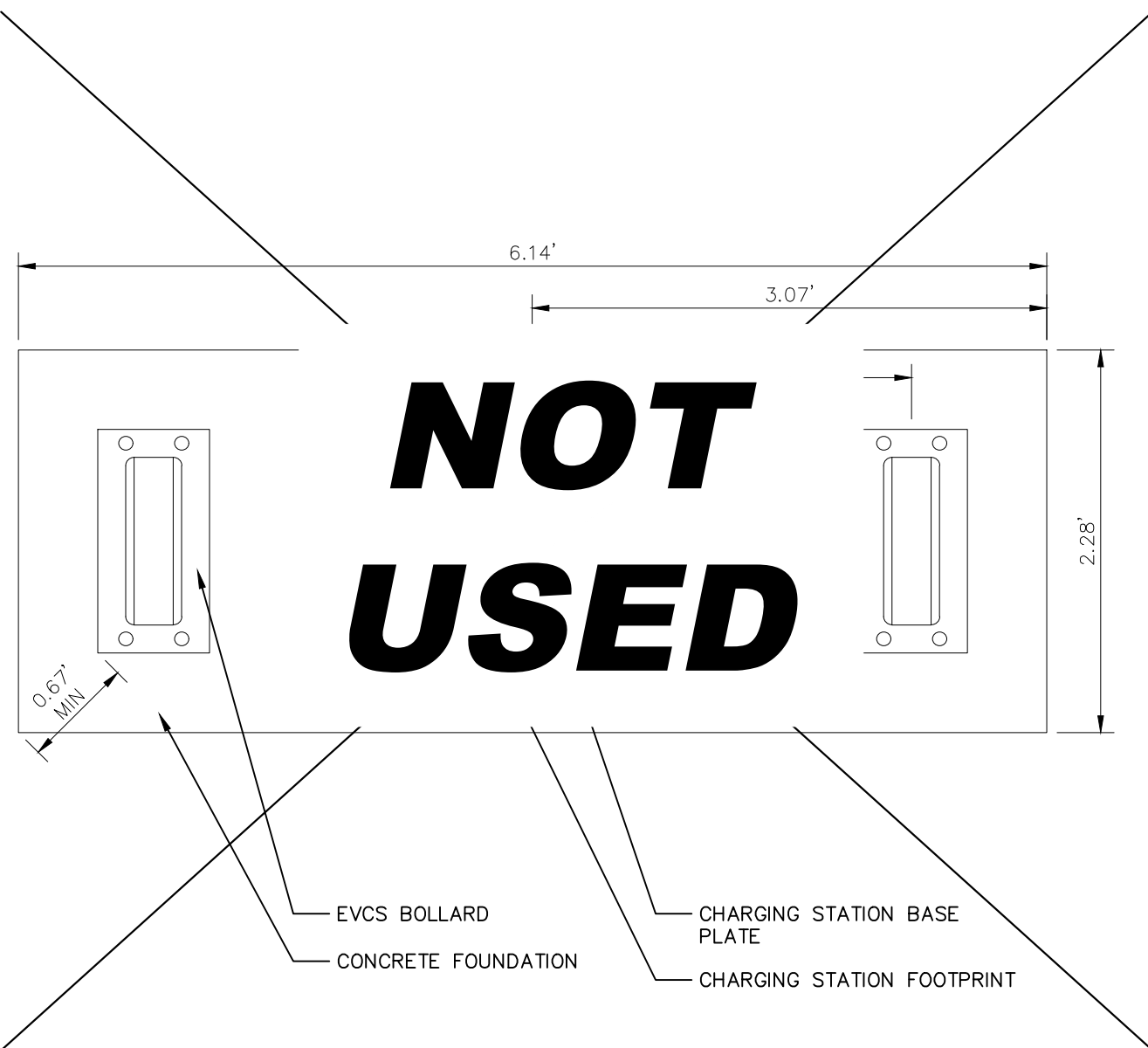
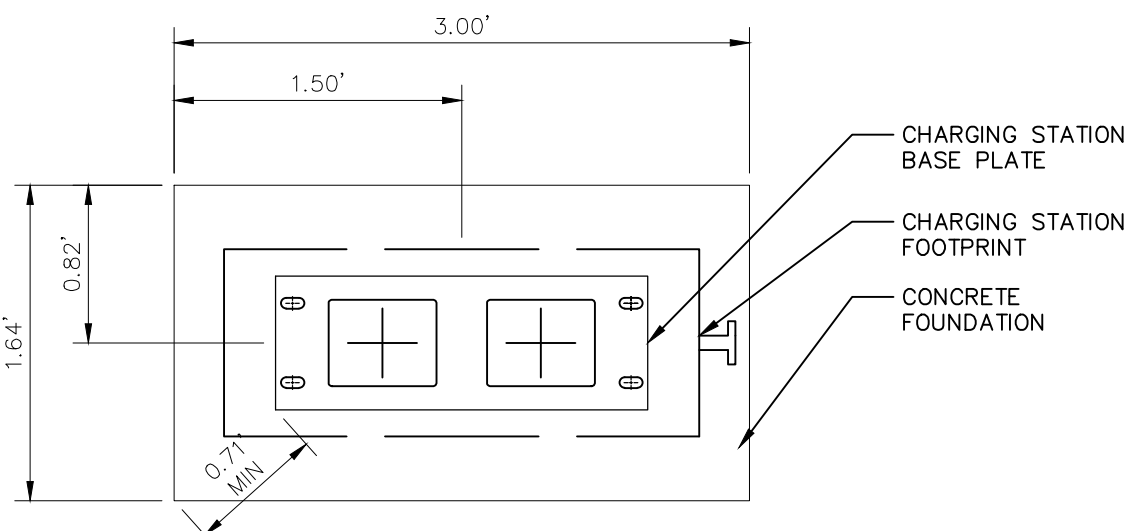
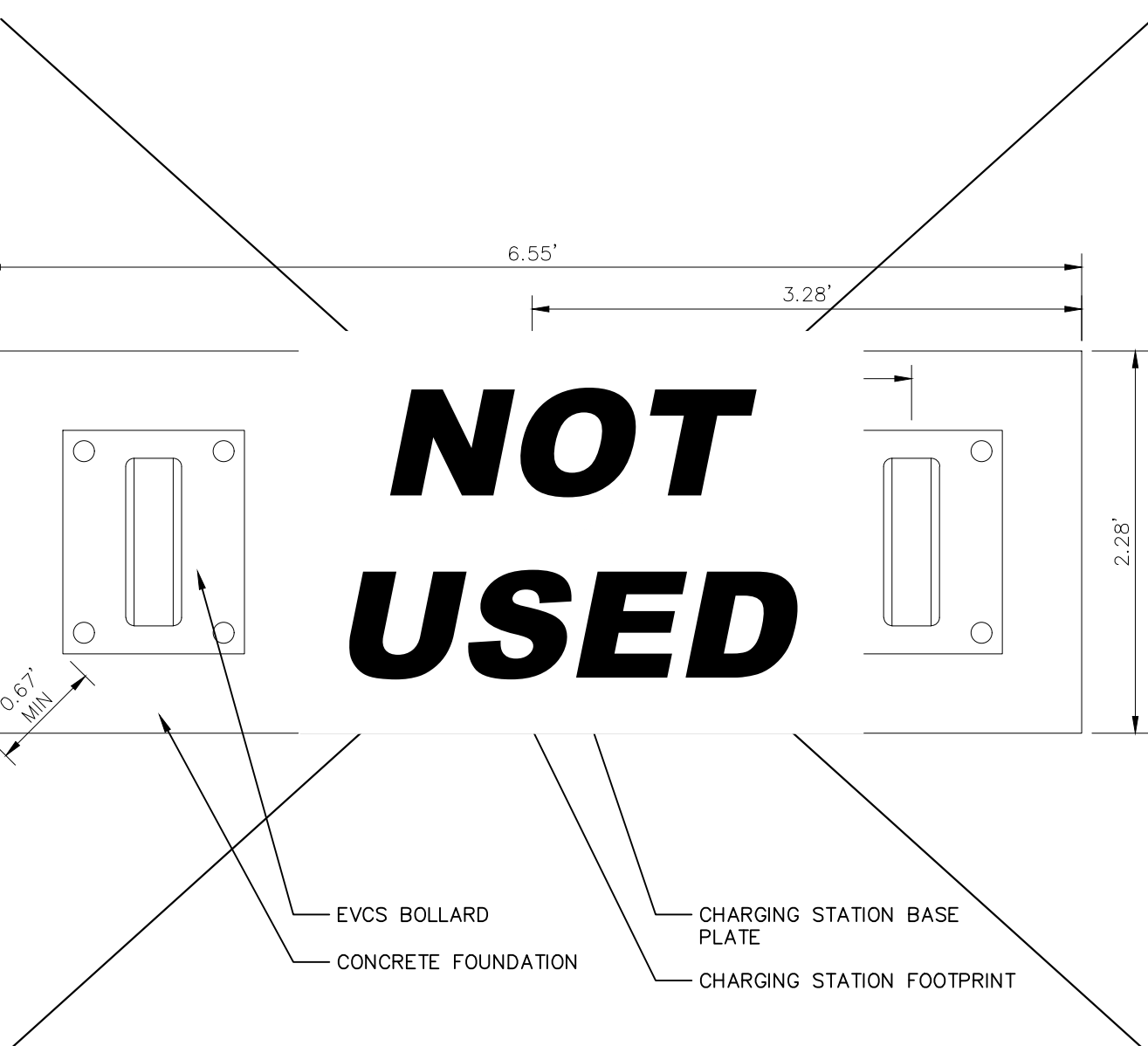
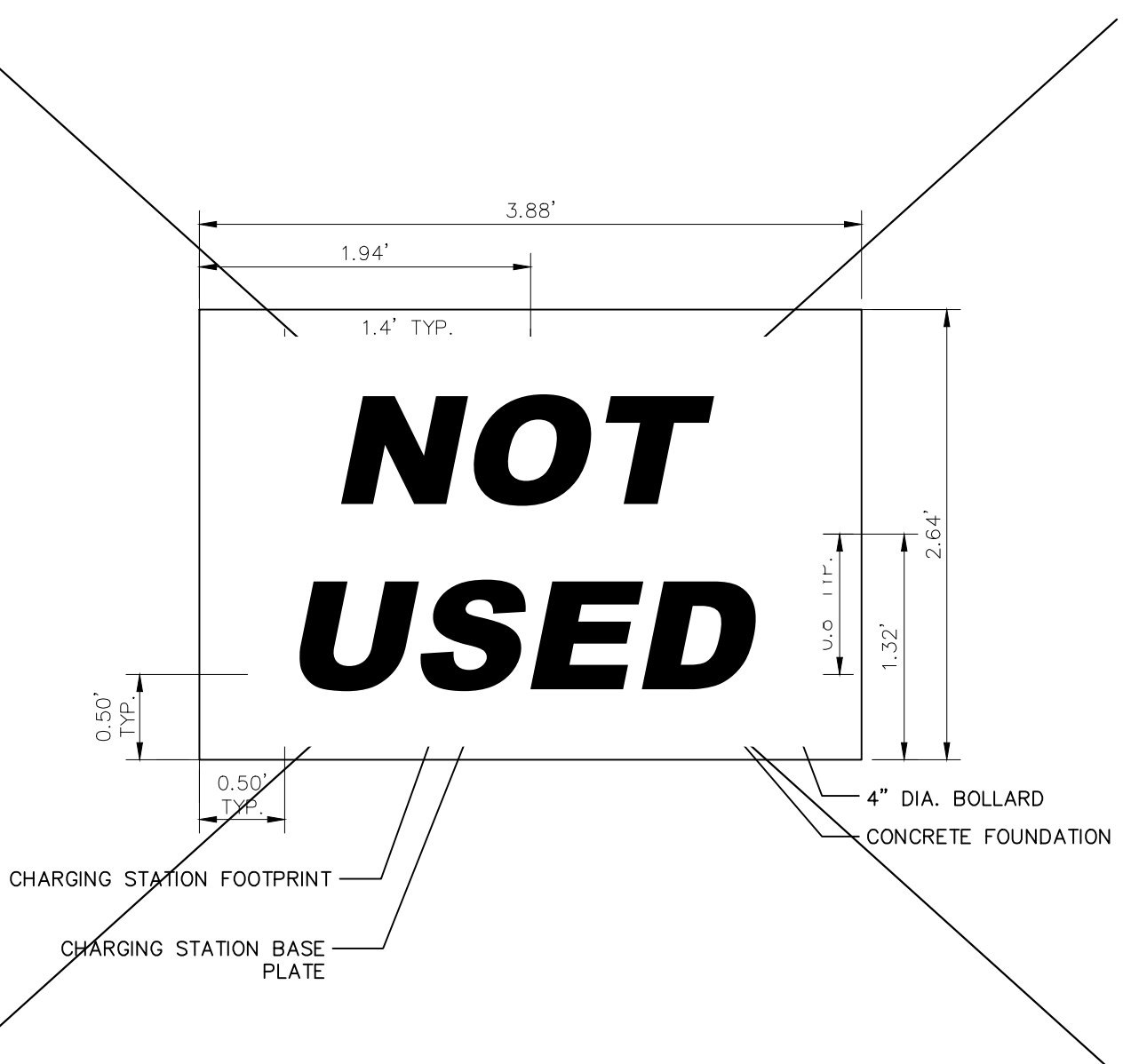


Figure 1: Plan view of the charging station layout. The diagram shows a rectangular area representing the charging station, divided into two sections by a vertical line. The left section is labeled "CHARGING STATION" and the right section is labeled "CONCRETE SLAB". The entire area is enclosed by a dashed line labeled "CHARGING STATION BAS PLATE". A scale bar at the bottom indicates a length of 1 meter.

Technical drawing of the proposed charging station anchor and base plate. The drawing shows a rectangular base plate with dimensions 26.25 inches wide and 23.50 inches high. The anchor is a rectangular plate with dimensions 3.88 inches wide and 7.50 inches high. The anchor is positioned on the base plate with dimensions 1.38 inches from the left edge, 2.09 inches from the bottom edge, and 7.50 inches from the right edge. The anchor has four mounting holes with dimensions 9.09 inches and 5.50 inches. The base plate has four mounting holes with dimensions 1.84 inches and 6.00 inches. The drawing includes labels for "PROPOSED CHARGING STATION ANCHOR (SEE NOTE ABOVE)" and "CHARGING STATION BASE PLATE".



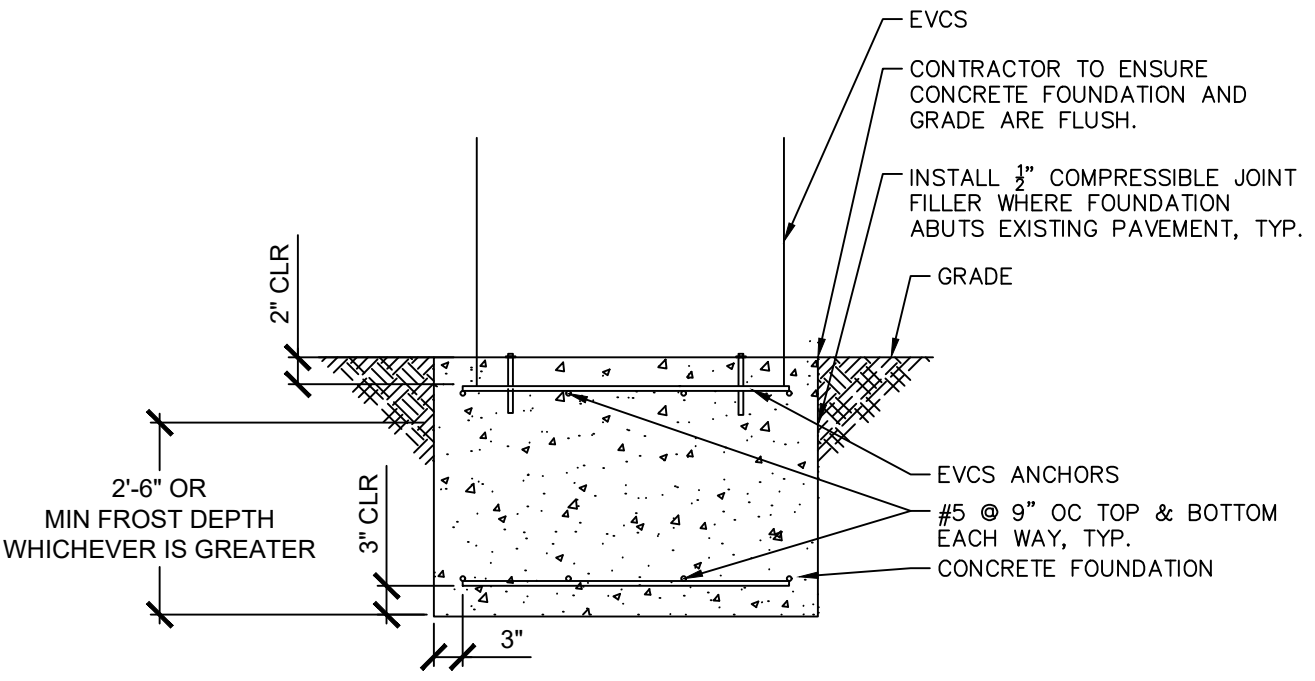
SCALE	7
N.T.S.	



ANCHOR NOTES
CONTRACTOR TO VERIFY POST INSTALLATION OR CAST IN PLACE ANCHOR
AS LISTED BELOW BASED ON FIELD MEASUREMENTS AND JURISDICTIONAL
REQUIREMENTS.

(6) 1/2" DIAMETER HOT-DIP GALVANIZED HEX HEAD ASTM F1554 GR. 36
CAST-IN-PLACE ANCHORS WITH MINIMUM EFFECTIVE EMBEDMENT OF 3 1/4"
OR ENGINEER APPROVED EQUAL

(6) 1/2" DIAMETER HEAT TREAT BOLT 12-33304 ANCHOR ROD WITH MINIMUM EFFECTIVE EMBEDMENT OF 3 1/4" OR ENGINEERING APPROVED EQUAL.



SCALE	1
N.T.S.	

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



SCALE
N.T.S.



- | |
|--------|
| SCALE |
| N.T.S. |



- ~~NOTES~~

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| SCALE |
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- ~~NOTES:~~

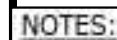
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| SCALE |
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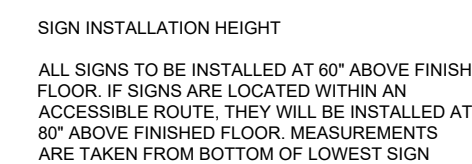
SCALE
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| SCALE |
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- | |
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| SCALE |
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SCALE
N.T.S.

C3-02

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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VOLTA CHARGING STATION CUT SHEET

At Volta we are on a mission to accelerate the adoption of the electric vehicle. To do this, we design, manufacture, install, and maintain city-wide public EV charging networks. Monetized through sponsored content, provided white-glove to site hosts, and offered free to the community, with Volta—everyone wins.

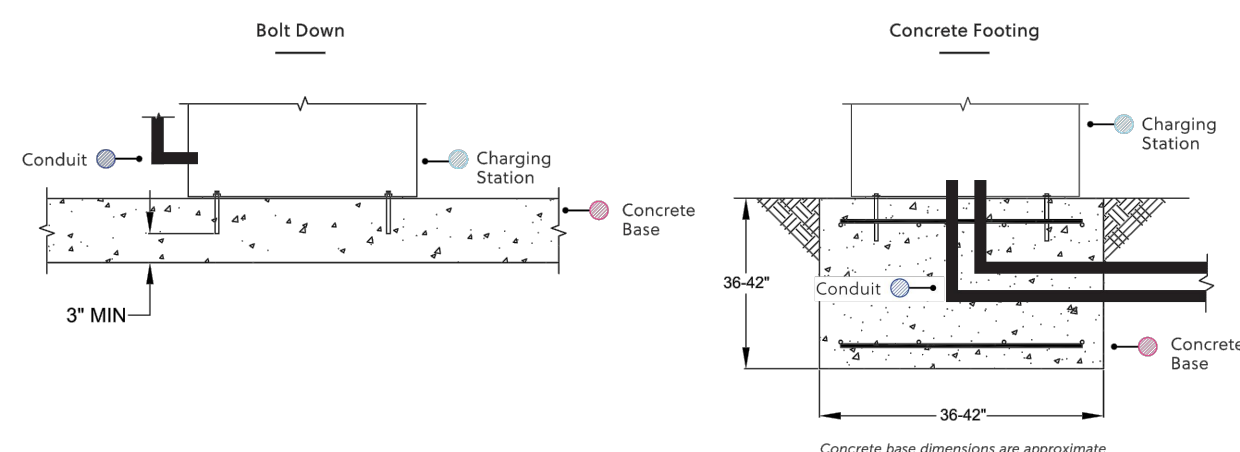
CHARGING STATION INFORMATION
Single or dual charging units
Size: H86.25" x W 32.5" x D 12.75"
Cord Length: 20'
Power Type: 208/240VAC, 40A, 10 kW max
Plug: SAE J1772 compliant connector
Listings: ULP E472556

POWER REQUIREMENTS
Charging Unit: 50A/2P-208/240V breaker
Station Aux Power: 20A/1P 120V breaker
Cell signal or LAN access required

INSTALLATION REQUIREMENTS
Wire Diameter: #6 AWG
Larger for longer conduit runs
Conduit Diameter: 1.5"
2" for longer conduit runs
Spare 1.5" conduit needed on all sites



CHARGING STATION BASE FOUNDATION PLANS



VOLTA SAN FRANCISCO HEADQUARTERS 135 De Haro St, San Francisco, CA 94103, United States info@voltacharging.com

CHARGING STATION CUT SHEET

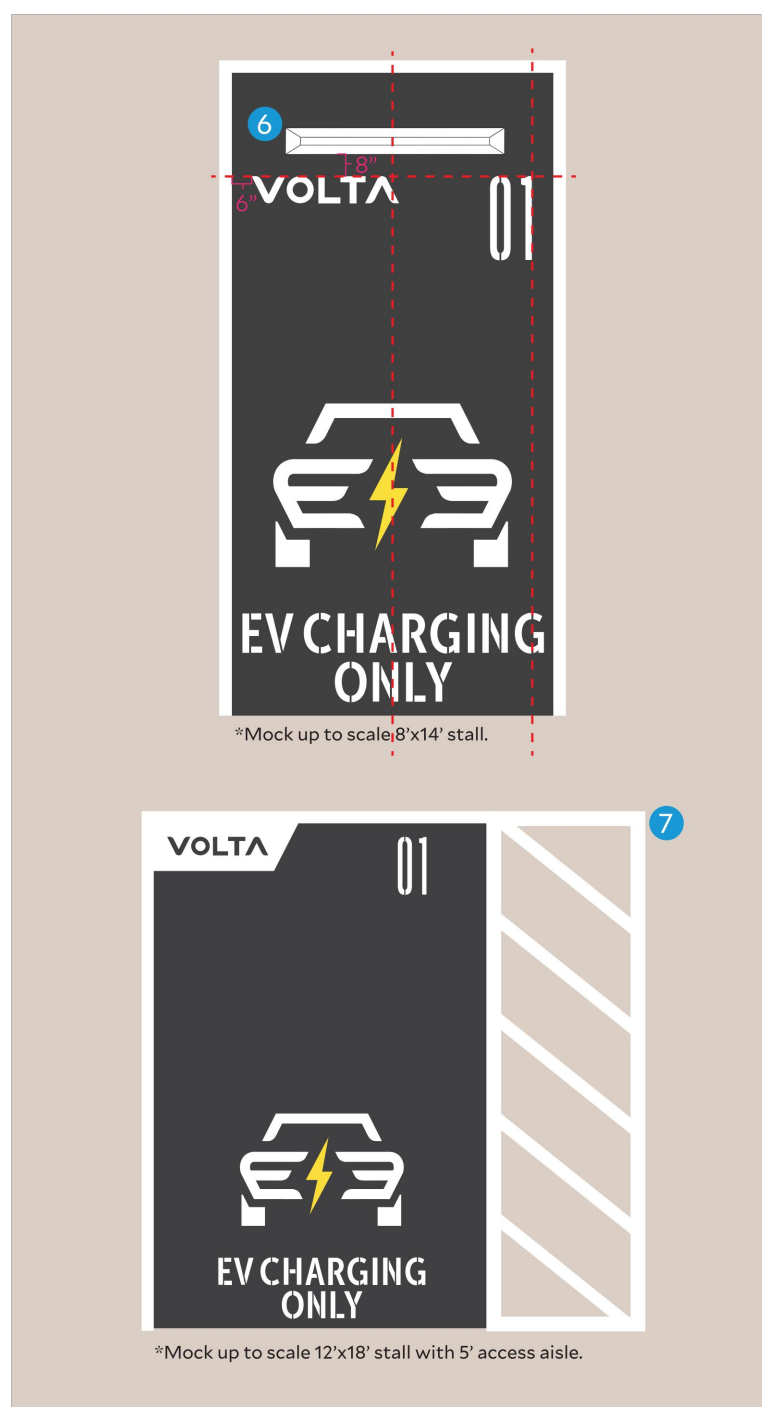
SCALE
N.T.S.

29

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Volta Charging

STRIPING GUIDELINES



ABSOLUTELY DO NOT

- Paint only a portion of the background (edge-to-edge or not at all)
- Paint the lightning bolt, any color but yellow or white
- Break EV CHARGING ONLY into 3 lines
- Only put 1 number in top right corner
- Paint the Volta logo any color other than white or Battleship Blue/Sealcoat

ACCESSORIES

6. WHEEL BLOCKS Place 8 inches above the Volta logo, centered within the stall. Wheel Blocks should be painted white.

7. ACCESS AISLE Should be painted white.

CURBS No need to paint the curbs unless they are painted an existing or conflicting color. If this is the case, paint the curb white.

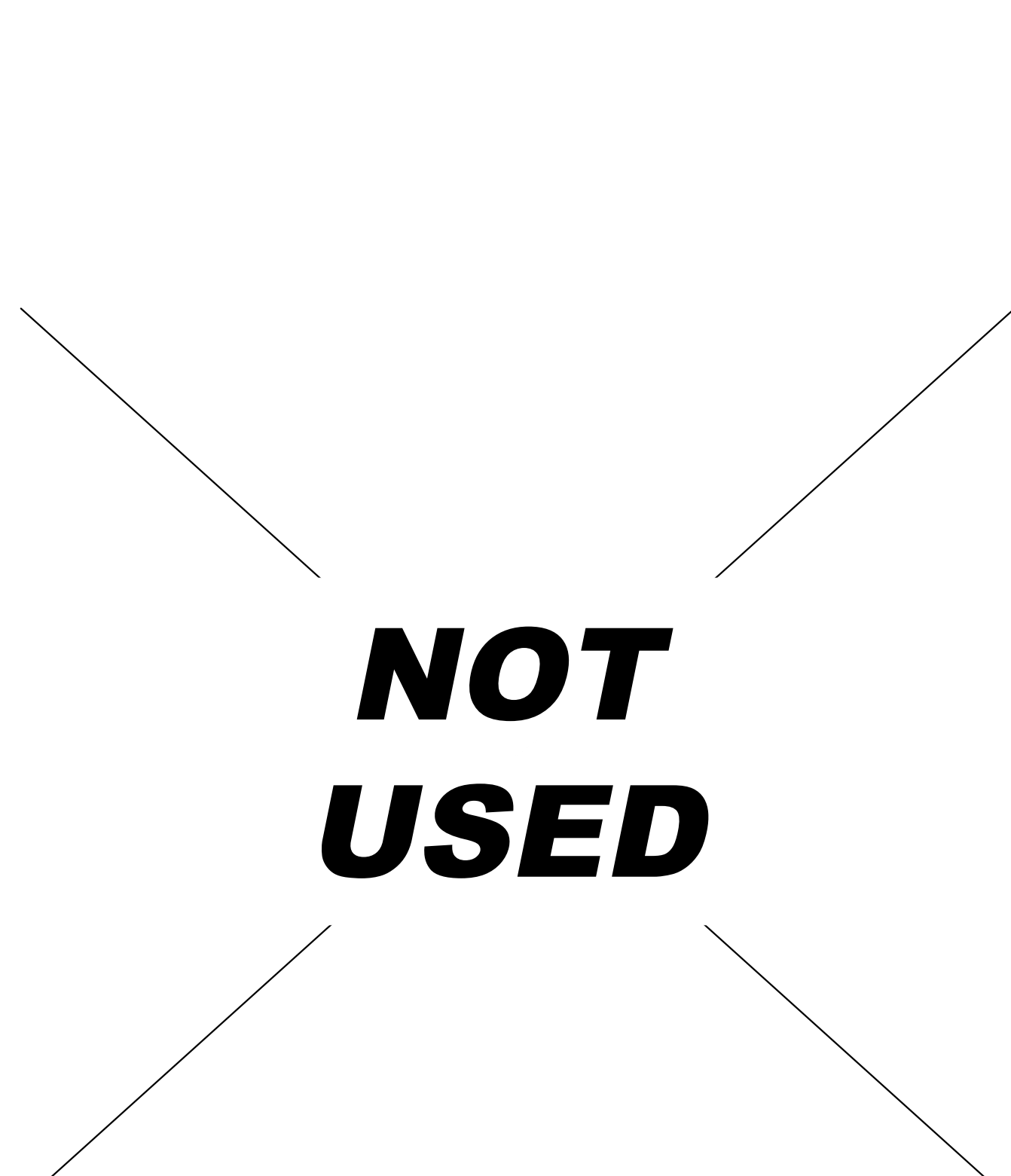
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EV STRIPING GUIDELINES

SCALE
N.T.S.

33

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Missing or invalid reference
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Sheet: 1

REMOTE HOLSTER CUT SHEET

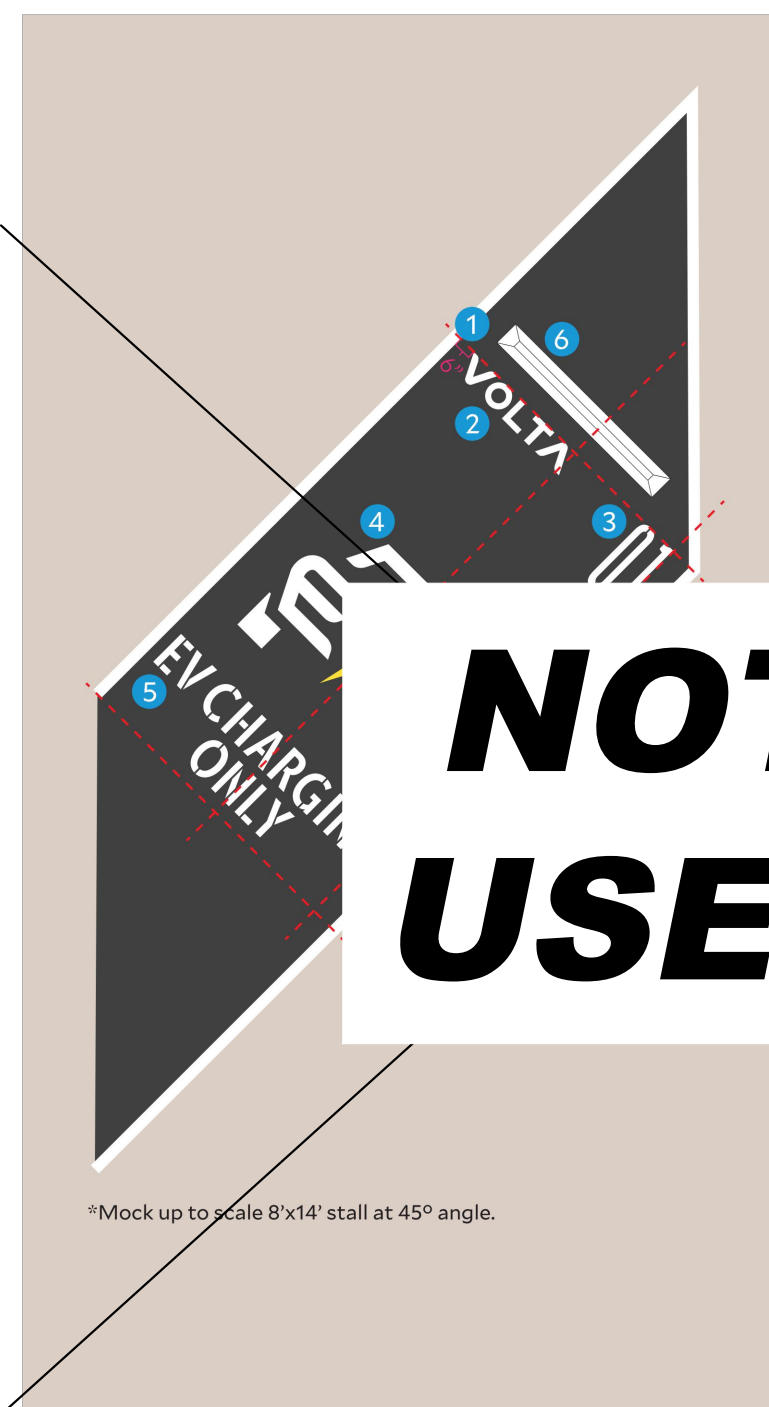
SCALE
N.T.S.

30

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Volta Charging

STRIPING GUIDELINES



DIAGONAL STALLS

1. SHAPE (SEE PAGE 1) Omit in diagonal spaces.

2. VOLTA LOGO (WHITE) 6 inches from the top line at the same angle as the stall lines.

3. NUMBERS (WHITE) The right number lines up flush right to the "G" in "CHARGING" and flush top with the Volta logo at same angle as the stall lines. There should be 3 inches in-between the left and right numbers. If stall is less than 8 feet, align numbers with the middle of the "G" (See diagram)

4. LETTERS Place centered, 4 inches from the bottom of the stall according to the top line with 2.5 inches between the 2 lines.

5. CAR Place centered 14 inches from the top of the letters at the same angle as the stall lines.

6. WHEEL BLOCKS Place 8 inches above the he same angle as the stall lines. ing to the space left in angled locks should be painted white.

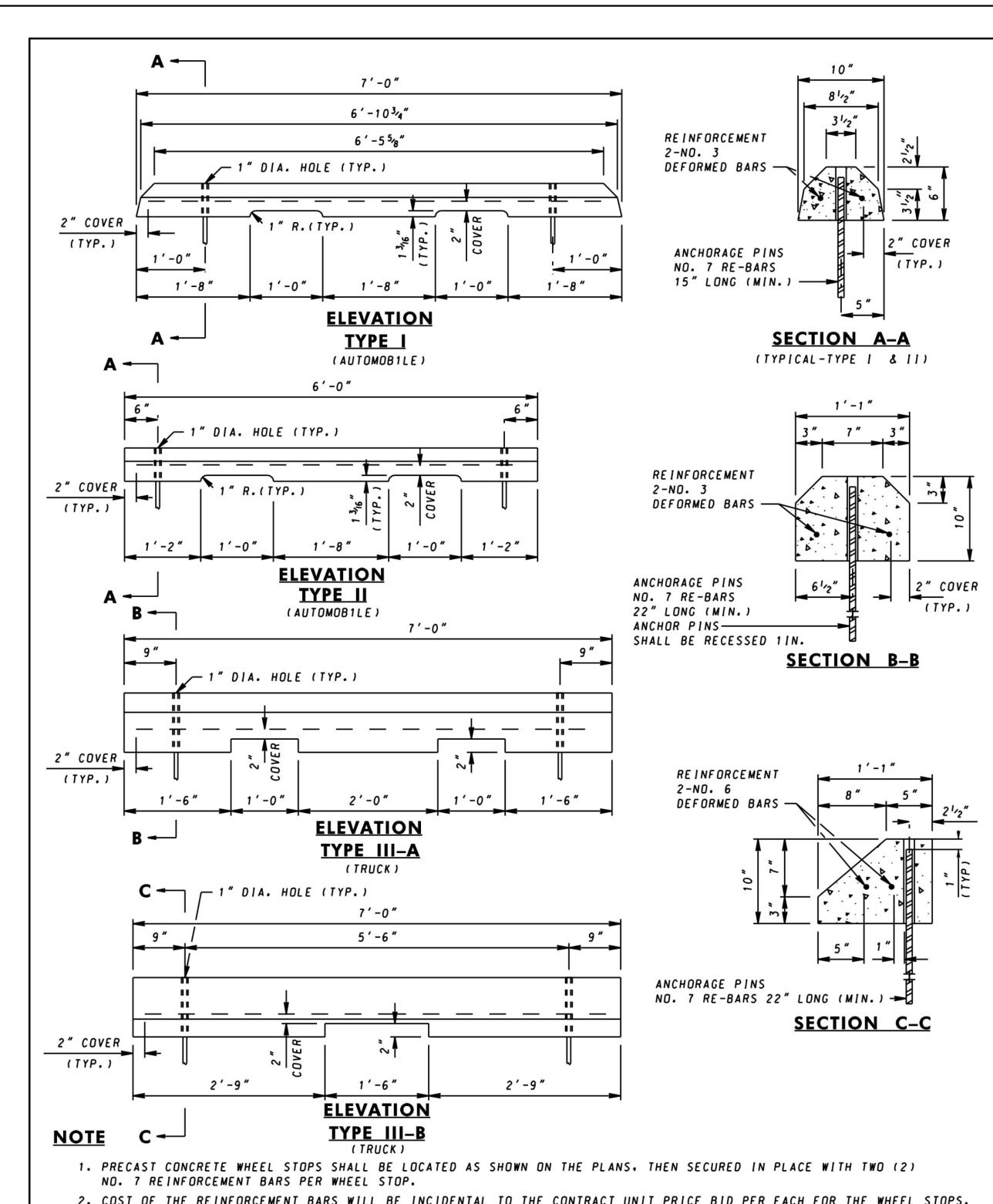
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EV STRIPING GUIDELINES

SCALE
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34

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Sheet: 1

CONCRETE WHEEL STOP

SCALE
N.T.S.

31

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Electric Vehicle Charging Infrastructure Terra 53 Installation brief

This document covers the main details and site requirements for the installation of the Terra 53 DC fast charging station.

Electrical Installation

- The electrical installation sho constructed according to loc regulations
- Over-voltage / surge protecti
- The components used in the circuit current of 10kA maxin

Required

- Minimal required external fus
- Power limiting settings availa configuration
- Power connection max: 60kV
- Maximum diameter conducti
- Cable enters the charger vertically at the height of the recess shown in Figure 2
- Extra cable length for installation on charger side: ± 3 ft (1 m)
- Wires of the cable inside of the charger connected with M8 cable lugs to copper conductors
- PE connected to the main PE rail

Recommended

- External switch / breaker on distribution board exclusive per charger

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L3 CHARGER CUT SHEET

SCALE
N.T.S.

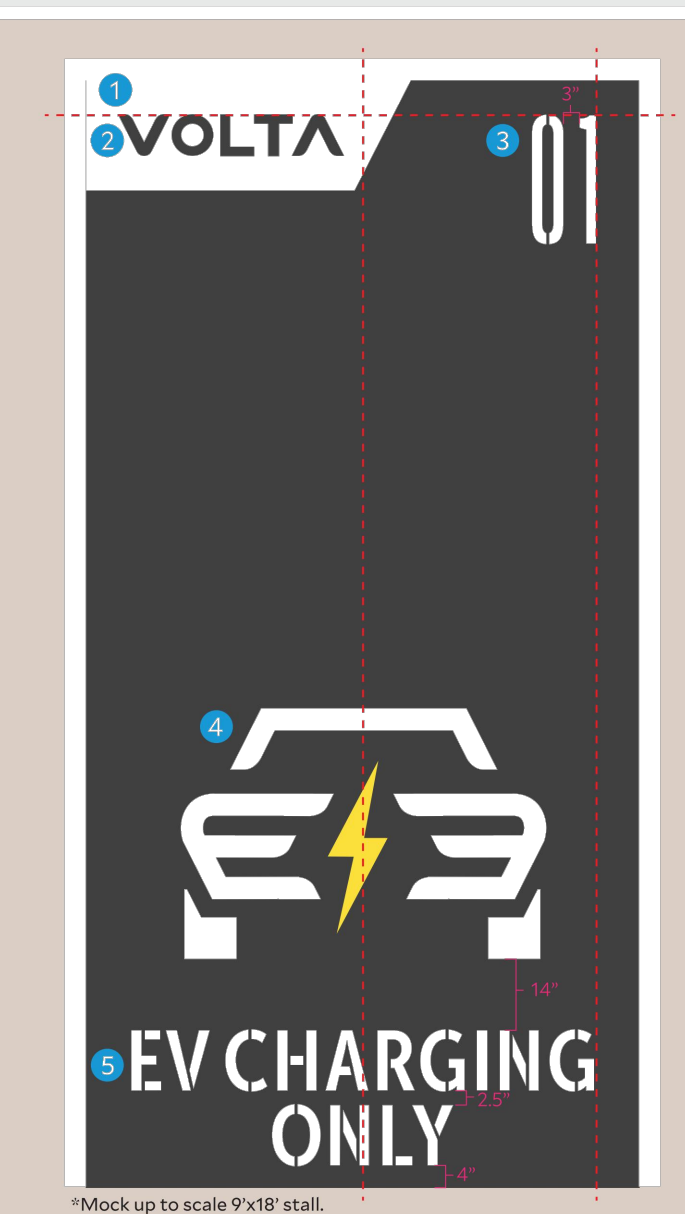
35

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Volta Charging

STRIPING GUIDELINES

PRODUCTS
Cement Background: Benjamin Moore Floor & Patio Battleship Blue N322 - 2X
51x3 30.0 811x 0.0 610x 30.0
Asphalt Background: Latex-tie 4.75 Gal. Ultra Shield Driveway Filler Sealer
Traffic Paint: Sherwin Williams TM2153 LF Yellow TTP-1952D, TM2152 White TTP-1952D



SURFACE PREP

Backgrounds are to only be painted for marquee locations or any location where the existing space has conflicting designations or is poor shape. For all other instances please proceed to branded striping.

CEMENT BACKGROUND:
For cement backgrounds please use battleship blue. All backgrounds must run edge-to-edge across the entire parking space.

ASPHALT BACKGROUND:
Asphalt should be ressealed with sealcoat. All backgrounds must run edge-to-edge across the entire parking space.

BRANDED STRIPING

VOLTA LOGO:
Should match the overall background color of the parking stall (unless you are omitting the container shape according to other specs, if so paint it white).

LINE & STENCILS:
Use traffic grade yellow for the lightning bolt stencil. Use traffic grade white for all other lines and stencils.

1. SHAPE (WHITE) Place flush with the top left corner.

2. VOLTA LOGO Center within the shape.

3. NUMBERS (WHITE) The right number lines up flush right to the "G" in "CHARGING" and flush top with the Volta logo. There should be 3 inches in-between the left and right numbers. If stall is less than 8 feet, align numbers with the middle of the "G" (See page 2).

4. LETTERS Place centered, 4 inches from the bottom of the stall with 2.5 inches between the 2 lines.

5. CAR Place centered 14 inches from the top of the letters.

1 of 3
info@voltacharging.com

EV STRIPING GUIDELINES

SCALE
N.T.S.

32

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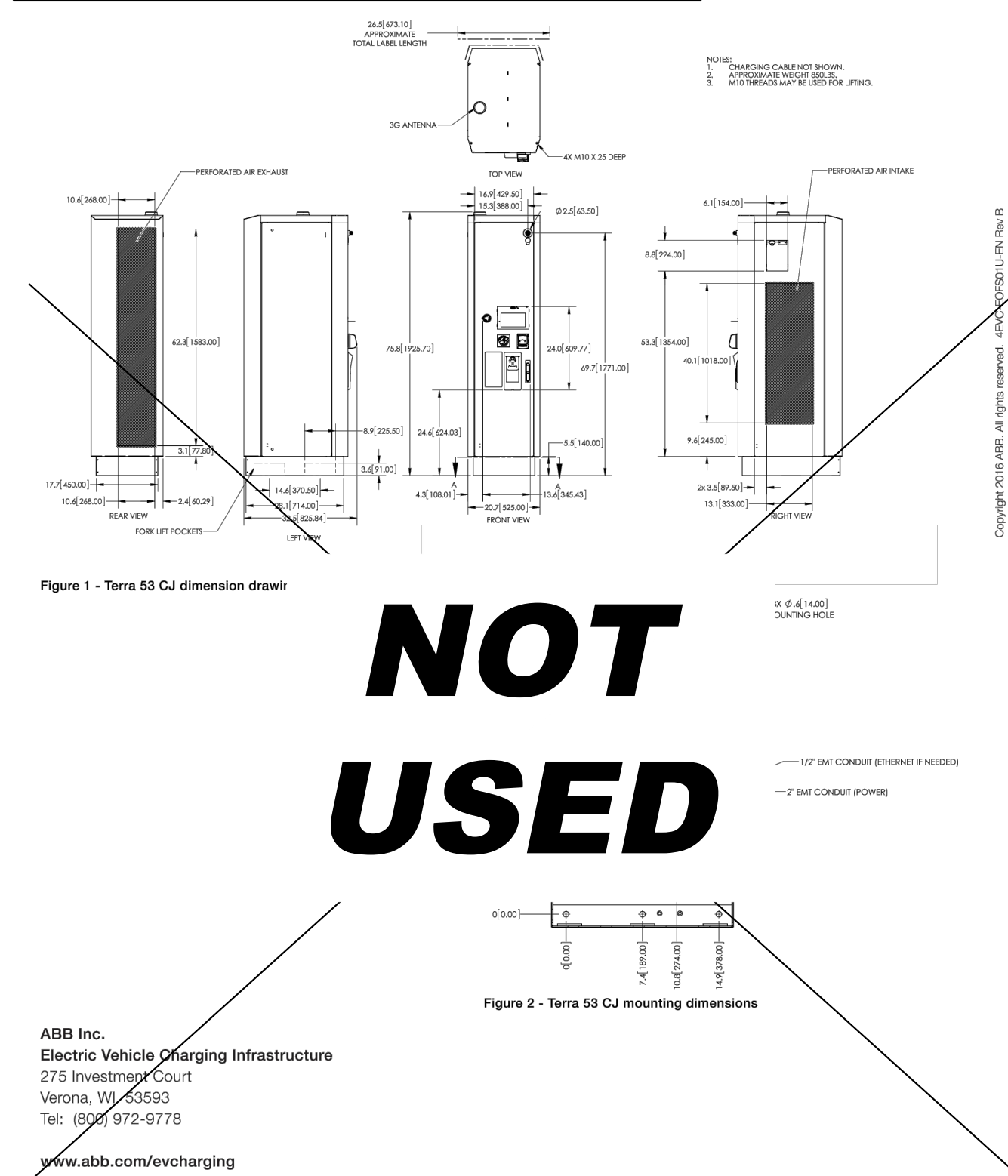


Figure 1 - Terra 53 Cj dimension drawl

NOT USED

Figure 2 - Terra 53 Cj mounting dimensions

ABB Inc.
Electric Vehicle Charging Infrastructure
275 Investment Court
Verona, NJ 07093
Tel: (800) 972-9778
www.abb.com/evcharging

Power and productivity
for a better world™ **ABB**

EV STRIPING GUIDELINES

SCALE
N.T.S.

35

VOLTA

155 DE HARO STREET
SAN FRANCISCO, CA 94103

Kimley»Horn

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CONCORD, MA 01742
Main: 781.328.0676 | www.kimley-horn.com
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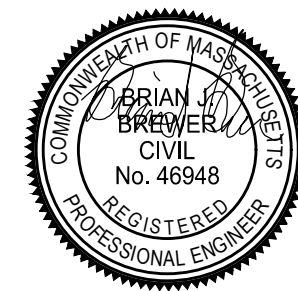
REV	DATE	DESCRIPTION	BY
4	07/13/2022	CD100s - ZONING PERMIT	TAS
3	06/21/2021	CD100 REVISION PER VOLTA COMMENTS	TAS
2	07/01/2019	CD100s	CMN
1	06/13/2019	CD90s	CMN

ISSUE DATE

07/18/2019

ISSUED FOR

PERMIT



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SHAW'S 65 MAIN
STREET PHASE 1

65 MAIN ST
MEDWAY, MA 02053

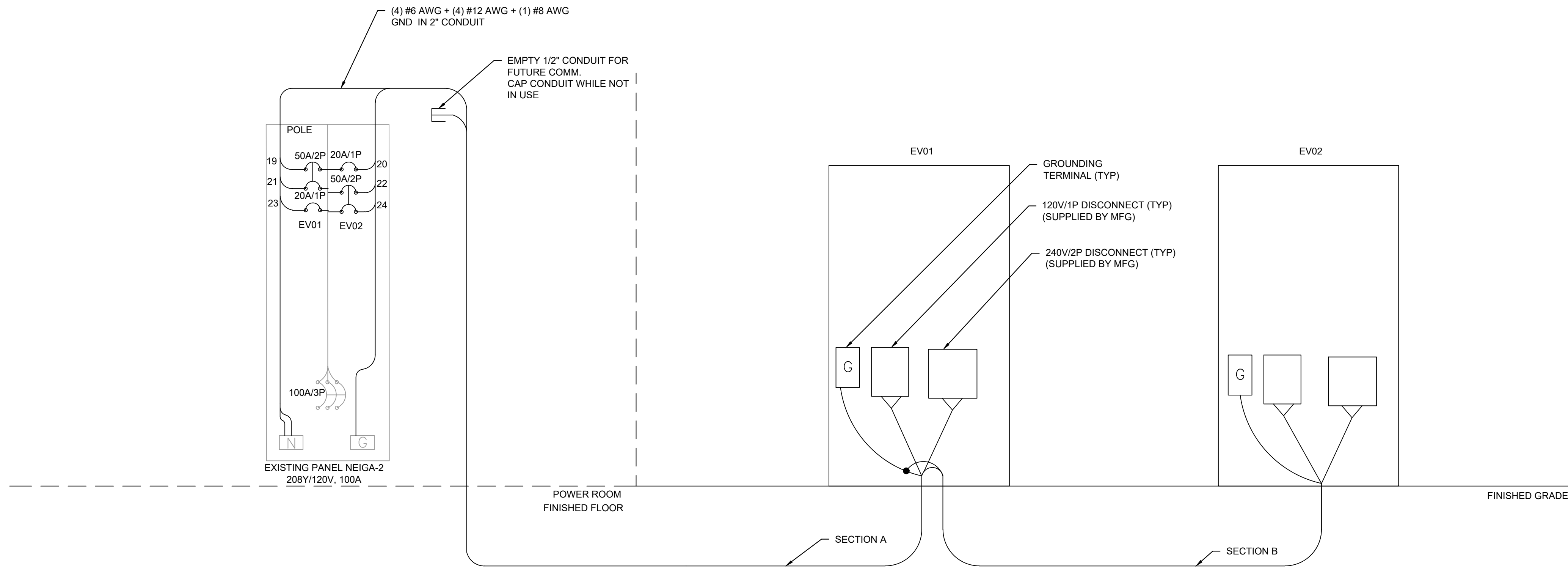
SHEET TITLE

SITE DETAILS

SHEET NUMBER

C3-03

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



NOTES

- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE-CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL USE THWN CONDUCTORS.
- CONTRACTOR SHALL USE EMT INSIDE AND ABOVE GRADE, NOT SUBJECT TO DAMAGE INSIDE. CONTRACTOR SHALL USE RGS OUTSIDE AND ABOVE GRADE. CONTRACTOR SHALL USE PVC SCHEDULE 80 BELOW GRADE.
- ONE LINE DIAGRAM IS FOR INFORMATIONAL PURPOSES ONLY. SEE SHEETS C1-00 & C2-00 FOR EXISTING CONDUIT STUB UP LOCATIONS.
- ALL CONNECTED LOAD INFORMATION IS UNKNOWN. CONTRACTOR SHALL CALCULATE THE UNKNOWN LOAD VALUES BASED ON THE MAXIMUM DEMAND CONTINUOUSLY RECORDED OVER A MINIMUM 30 DAY PERIOD. MAXIMUM DEMAND SHALL BE RECORDED USING AN AMMETER OR POWER METER CONNECTED TO EACH PHASE OF THE FEEDER OR SERVICE. THE RECORDING SHALL REFLECT THE MAXIMUM DEMAND OF THE FEEDER OR SERVICE BEING TAKEN WHEN BUILDING OR SPACE IS OCCUPIED. RECORDING SHALL INCLUDE MEASUREMENT OR CALCULATION OF THE LARGEST EQUIPMENT LOAD(S) THAT MAY BE PERIODIC IN NATURE DUE TO SEASONAL OR SIMILAR CONDITIONS.
- THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND COMPLETED LOAD SUMMARY TABLE FOR EXISTING PANEL 'NEIGA-2' TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT PROCEED WITH ANY MODIFICATIONS AND/OR ADDITIONS UNTIL WRITTEN APPROVAL IS RENDERED FROM THE ENGINEER. ENGINEER MAY RECOMMEND LOAD BALANCING ON PHASES BASED ON LOAD CALCULATION REPORT. CONTRACTOR NOT TO MAKE ADJUSTMENTS UNTIL GIVEN APPROVAL BY ENGINEER.

Panel Schedule															
Panelboard NEIGA-2 Location: Electrical Room Volts: 208Y/120 Phase 3 Wire: 4 Hertz: 60															
M. Breaker: 100A Main AIC: 10K Branch AIC: 10K ENCL. (NEMA): 1 MTG: Surface															
110 Amp , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
EXISTING	20	1					1	2					20	1	EXISTING
EXISTING	20	1					3	4					20	1	EXISTING
EXISTING	20	1					5	6					20	1	EXISTING
EXISTING	20	1					7	8					20	1	EXISTING
EXISTING	20	1					9	10					20	1	EXISTING
EXISTING	20	1					11	12					15	1	EXISTING
EXISTING	20	1					13	14					20	1	EXISTING
EXISTING	20	1					15	16					20	1	EXISTING
SPARE	20	1					17	18					20	1	EXISTING
CHARGING STATION EV01	50	2	6	40.0			19	20	5.0			10	20	1	CHARGING STATION EV02
					40.0		21	22		40.0		4	50	2	CHARGING STATION EV01
CHARGING STATION EV01	20	1	12			5.0	23	24			40.0				
SPACE							25	26						1	SPACE
SPACE							27	28						2	SPACE
SPACE							29	30						3	SPACE
SPACE							31	32						4	SPACE
SPACE							33	34						5	SPACE
SPACE							35	36						6	SPACE
SPACE							37	38						7	SPACE
SPACE							39	40						8	SPACE
SPACE							41	42						9	SPACE
Total A/Phase				40.0	40.0	5.0				5.0	40.0	40.0	Total A/Phase		
Notes:				1. Connected KVA: NEW											
				2. Demand KVA: NEW											

PANEL SCHEDULE

Voltage Drop Calculations								
Start Point	End Point	Amperage (A)	Voltage	Distance	Conductor (AWG)	Conductor Resistance (ohm/kft)	V.D.	V.D. %
PANEL NEIGA-2	EV01	40	208	120	6	0.51	4.90	2.35
PANEL NEIGA-2	EV01	5	120	120	12	2.05	2.46	2.05
PANEL NEIGA-2	EV02	40	208	150	6	0.51	6.12	2.94
PANEL NEIGA-2	EV02	5	120	150	12	2.05	3.08	2.56

VOLTAGE DROP CALCULATIONS

Conduit Schedule				
Conduit Section	Conduit #	Conduit Size	Conductors	Installation Method
A	1	2"	(4) #6AWG + (4) #12AWG + (1) #8AWG GND	Directional Bore
	2	1/2"	Future Communications	
B	1	1-1/2"	(2) #6AWG + (2) #12AWG + (1) #8AWG GND	Directional Bore
	2	1/2"	Future Communications	

CONDUIT SCHEDULE

VOLTA

155 DE HARO STREET
SAN FRANCISCO, CA 94103

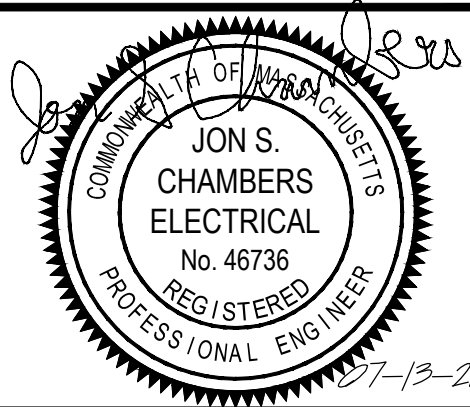
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REV	DATE	DESCRIPTION	BY
4	07/13/2022	CD100s - ZONING PERMIT	TAS
3	06/21/2021	CD100 REVISION PER VOLTA COMMENTS	TAS
2	07/01/2019	CD100s	CMN
1	06/13/2019	CD90s	CMN

ISSUE DATE
07/13/2022

ISSUED FOR
PERMIT



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SHAW'S 65 MAIN
STREET PHASE 1

65 MAIN ST
MEDWAY, MA 02053

SHEET TITLE
ELECTRICAL ONE LINE
DIAGRAM

SHEET NUMBER
E1-00

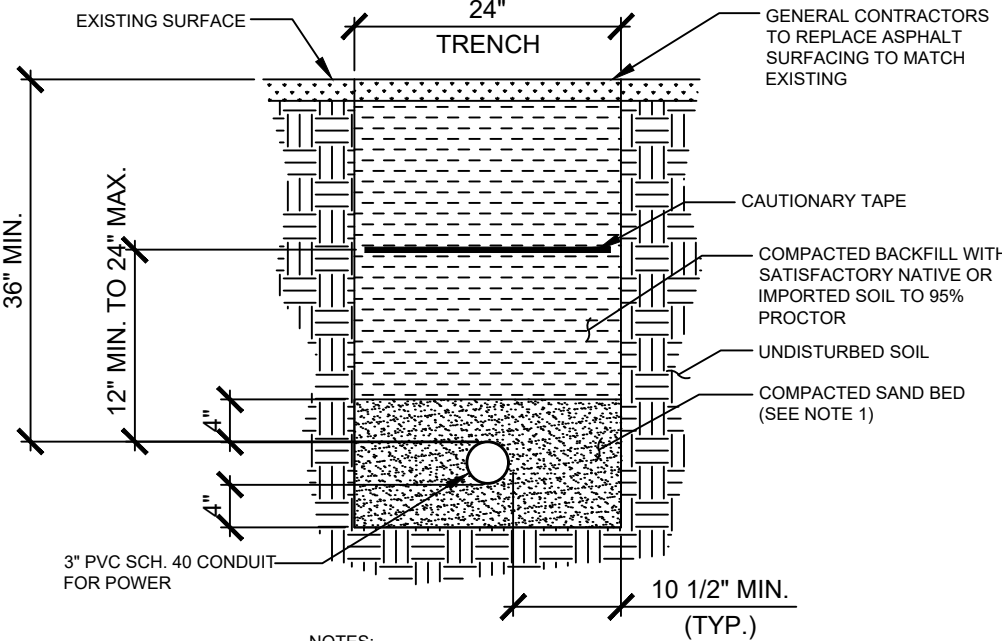
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

1. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART110.3
2. ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS
3. ALL CONDUCTORS SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES.
4. EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER ART 210.5
5. ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA ELECTRIC GROUNDING CONDUCTORS
6. CHARGING UNITS ARE EQUIPPED WITH AN INTEGRATED CONTACTOR TO PREVENT BACK FEEDING OF POWER TO THE SOURCE
7. CONTRACTOR TO FIELD VERIFY MAIN FEED BREAKER SUPPORTING DISTRIBUTION PANEL IS APPROPRIATELY SIZED TO SUPPORT THE LOAD. CONTRACTOR SHALL CONTRACT THE ENGINEERING TEAM IMMEDIATELY IF BREAKER IS FOUND TO BE INSUFFICIENT

ABBREVIATIONS	
A	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
ART	ARTICLE
AUX	AUXILIARY
BLDG	BUILDING STRUCTURE
CONC	CONCRETE
CU	COPPER
DC	DIRECT CURRENT
EGC	EQUIPMENT GROUNDING CONDUCTOR
(E)	EXISTING
EMT	ELECTRIC METALLIC TUBING
EV	ELECTRIC VEHICLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
GALV	GALVANIZED
GND	GROUND
HDG	HOT DIPPED GALVANIZED
I	CURRENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
(N)	NEW
OC	ON CENTER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
RMC	RIGID METALLIC CONDUIT
SCH	SCHEDULE
SS	STAINLESS STEEL
TYP	TYPICAL
V	VOLT
W	WATT
XFMR	TRANSFORMER

ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.

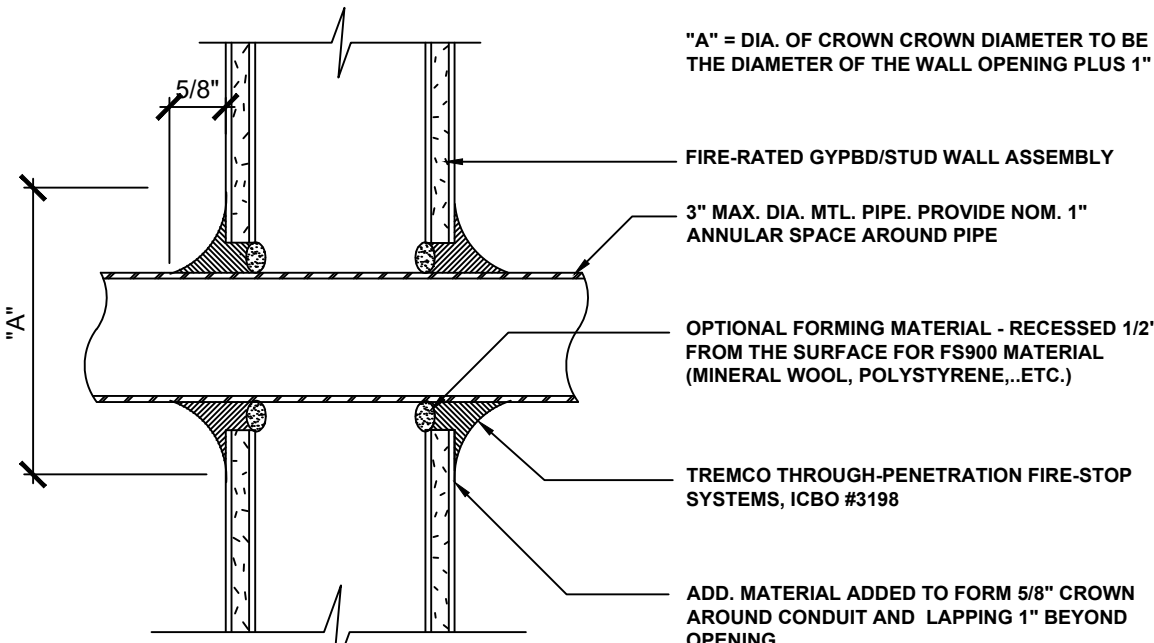


- NOTES:
1. LEAN CONCRETE RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
2. BURY CONDUITS 36" MINIMUM BELOW FINISHED GRADE.
3. ALL PVC SWEEPS TO BE A MINIMUM 36" SWEEPS.

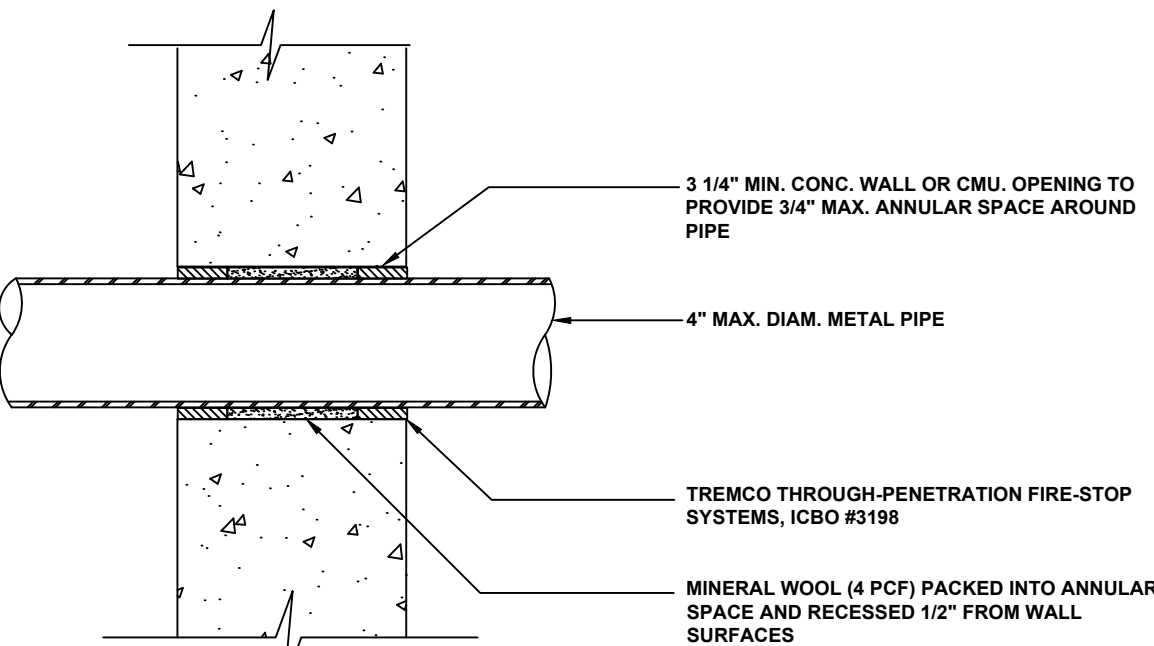
POWER TRENCH

SCALE
N.T.S.

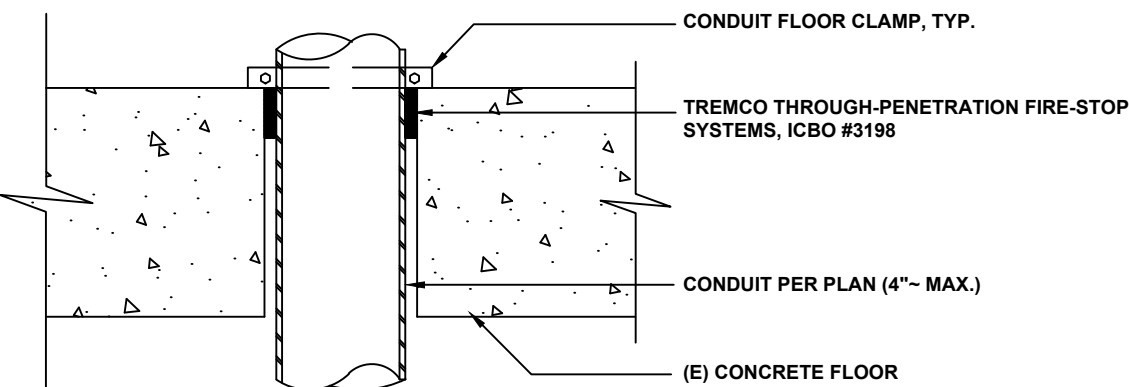
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FRAMED WALL PENETRATION



CONCRETE WALL PENETRATION



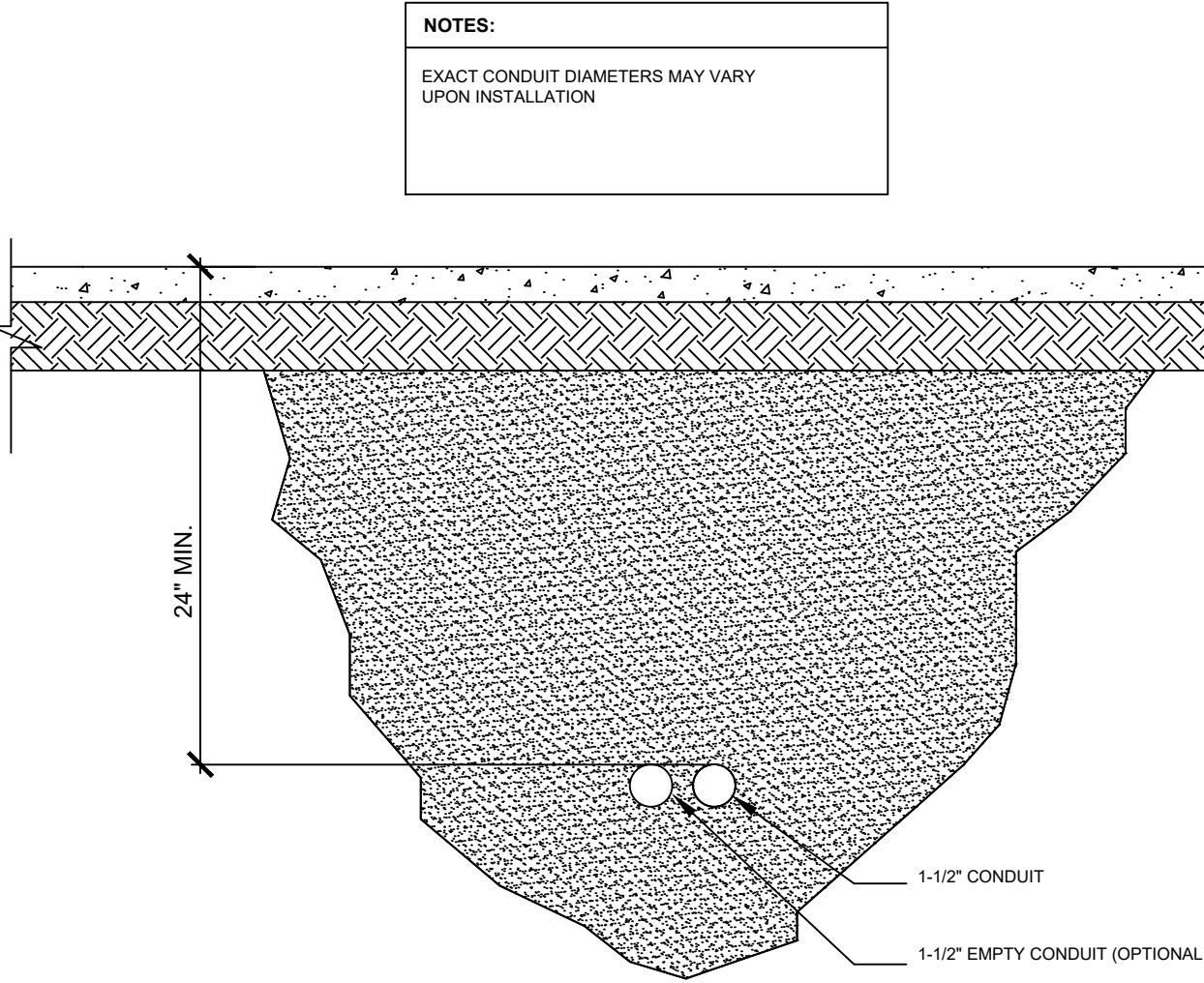
CONCRETE FLOOR PENETRATION

- NOTES:
- NOTE: 1. CONTRACTOR TO X-RAY PRIOR TO DRILLING OR CORING TO LOCATE (E) RE-BAR. DO NOT CUT RE-BAR.
2. PENETRATIONS THRU WALLS SHALL COMPLY WITH T24, CBC SECTION 709.6.
- F RATING - PENETRATIONS 4" - OR LESS
- T RATING - PENETRATIONS LARGER THAN 4" - PENETRATIONS @ CORRIDOR CLGS. WHICH ARE NOT RATED, BELOW
3. PENETRATIONS THRU FLOORS/ CEILINGS SHALL COMPLY WITH T24, CBC SECTION 710.3.
- F RATING - PENETRATIONS 4" - OR LESS
- T RATING - PENETRATIONS LARGER THAN 4" - PENETRATIONS NOT CONTAINED WITHIN A WALL.

PENETRATION DETAIL

SCALE
N.T.S.

4



BORE SECTION DETAIL

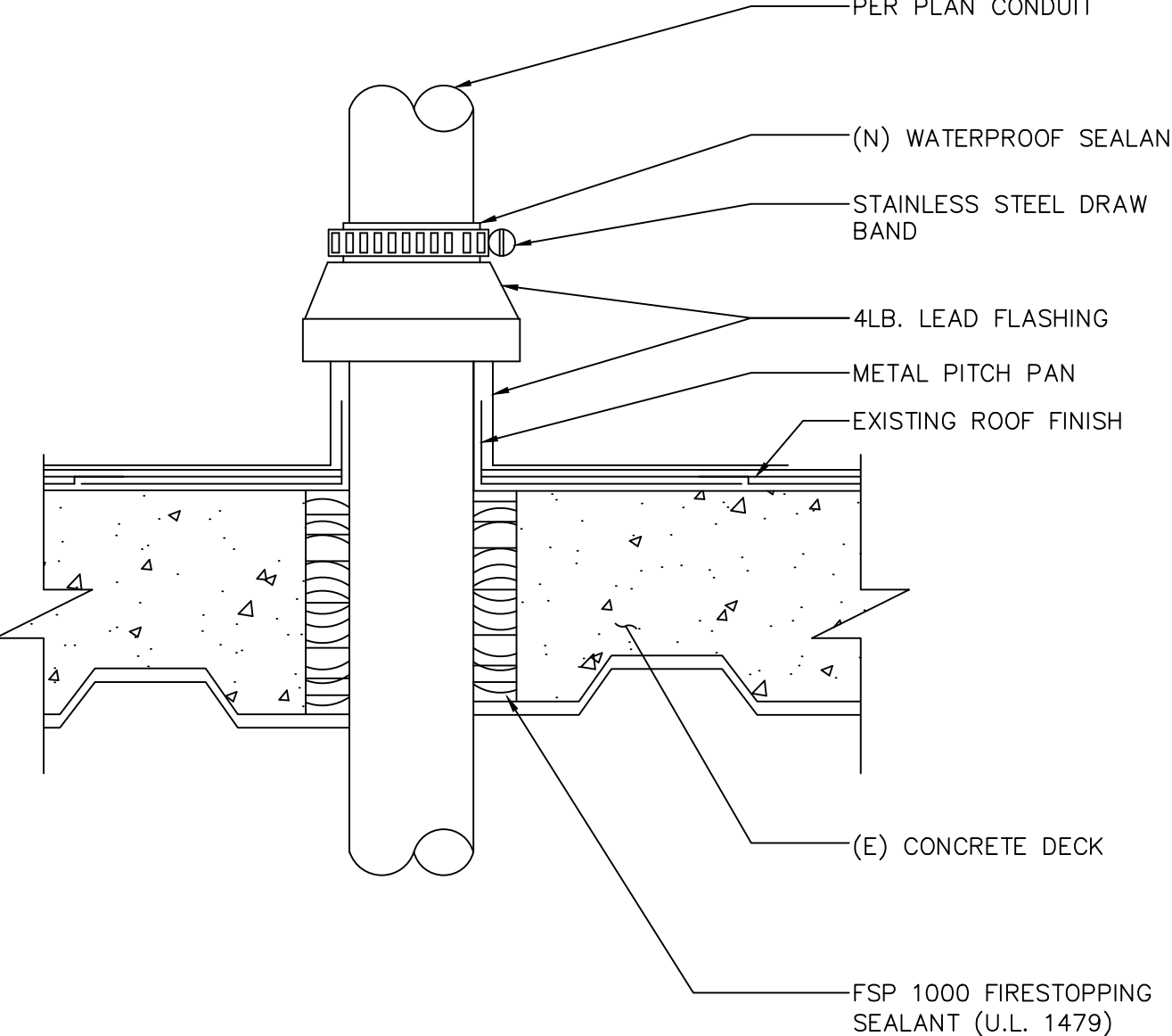
SCALE
N.T.S.

2

NOT USED

SCALE
N.T.S.

5



CORE DETAIL

SCALE
N.T.S.

3

NOT USED

SCALE
N.T.S.

5

NOT USED

SCALE
N.T.S.

6

NOT USED

SCALE
N.T.S.

7

NOT USED

SCALE
N.T.S.

8

VOLTA

155 DE HARO STREET
SAN FRANCISCO, CA 94103

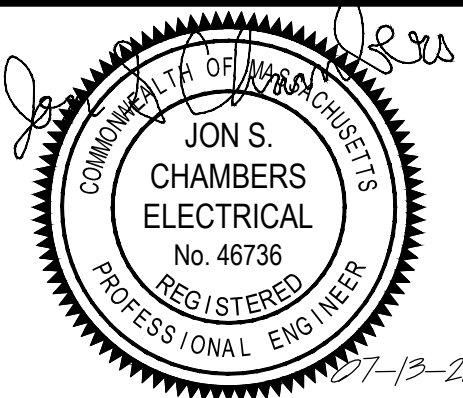
Kimley»Horn

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REV	DATE	DESCRIPTION	BY
4	07/13/2022	CD100s - ZONING PERMIT	TAS
3	06/21/2021	CD100 REVISION PER VOLTA COMMENTS	TAS
2	06/07/2019	CD100s	GBR
1	06/06/2019	CD90s	GBR

ISSUE DATE
07/13/2022

ISSUED FOR
PERMIT



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHAW'S 65 MAIN
STREET PHASE 1

65 MAIN ST
MEDWAY, MA 02053

SHEET TITLE
ELECTRICAL NOTES & DETAILS

SHEET NUMBER

E3-00

ELECTRICAL NOTES & ABBREVIATIONS

PENETRATION DETAIL

SCALE
N.T.S.

4

NOT USED

SCALE
N.T.S.

7

NOT USED

SCALE
N.T.S.

8